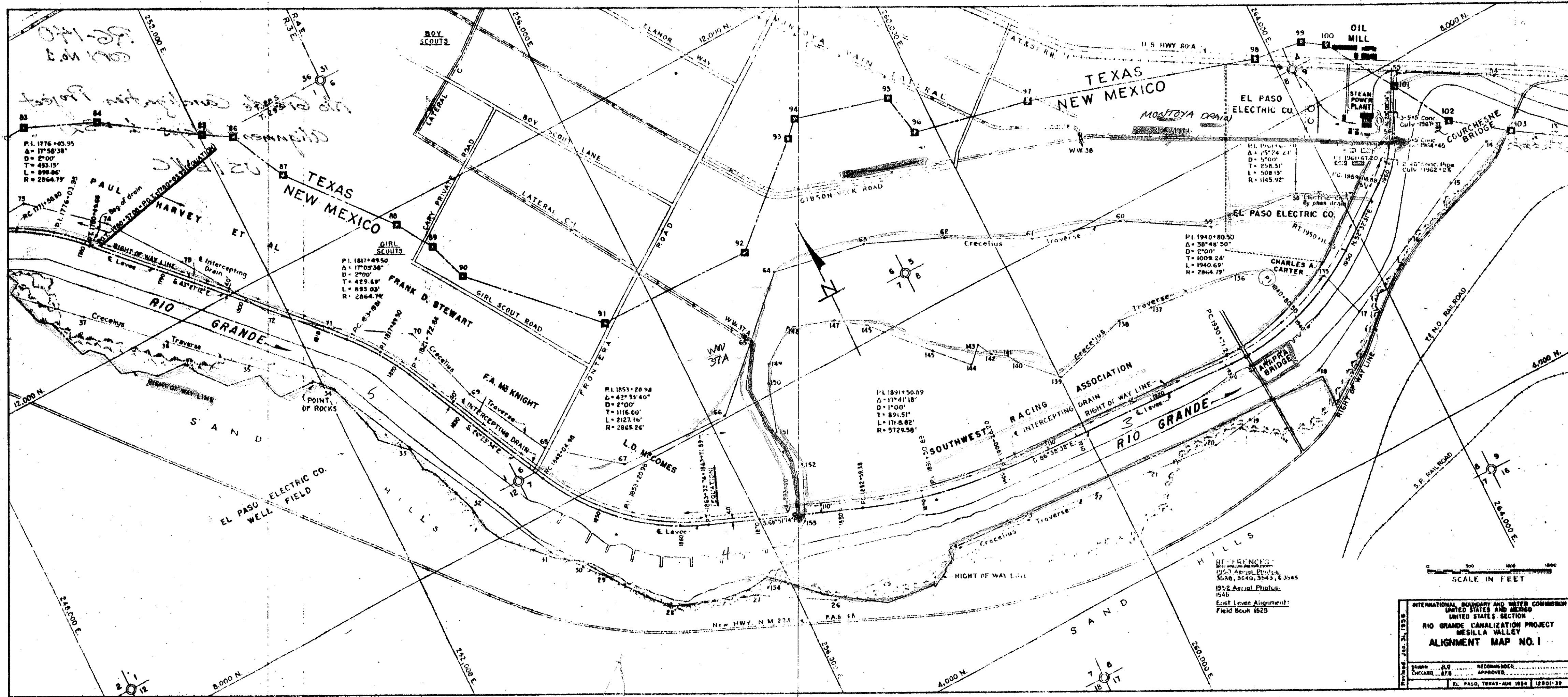
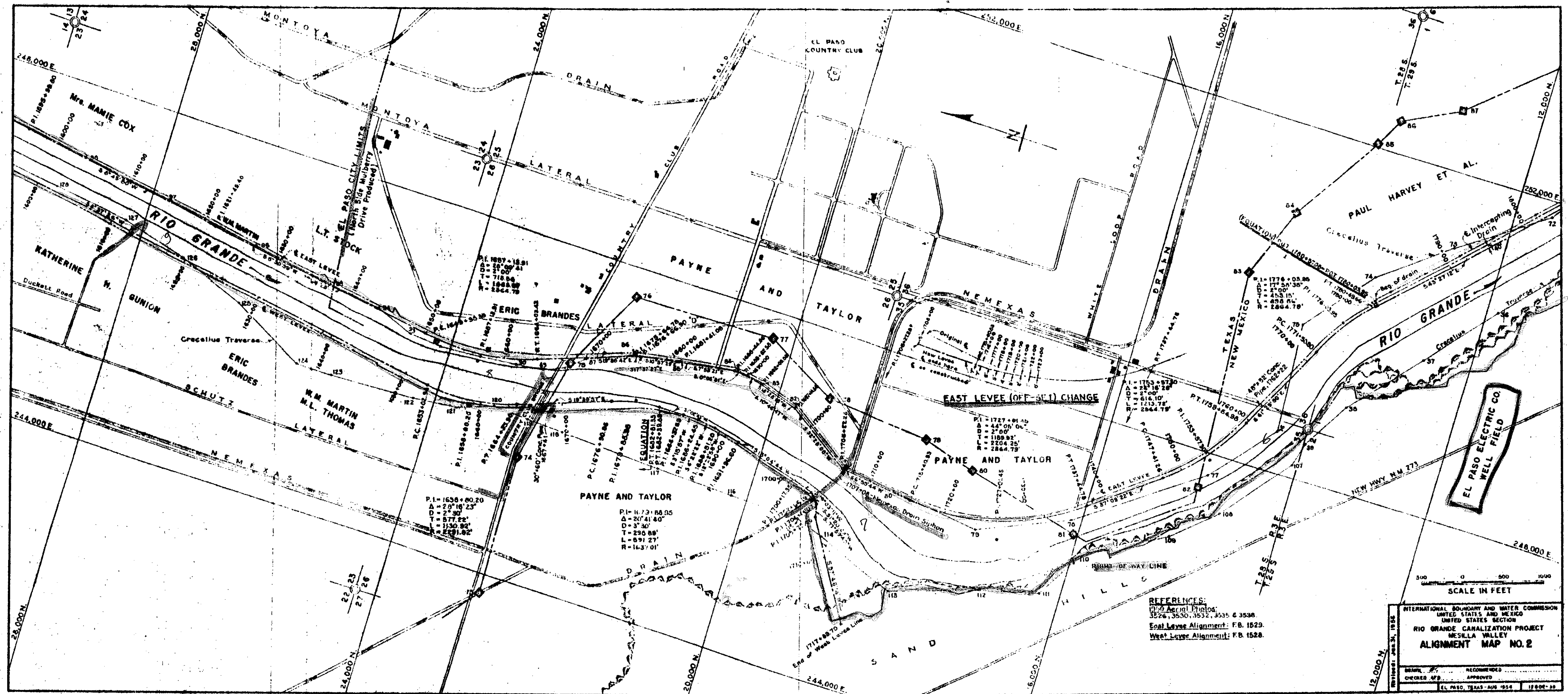
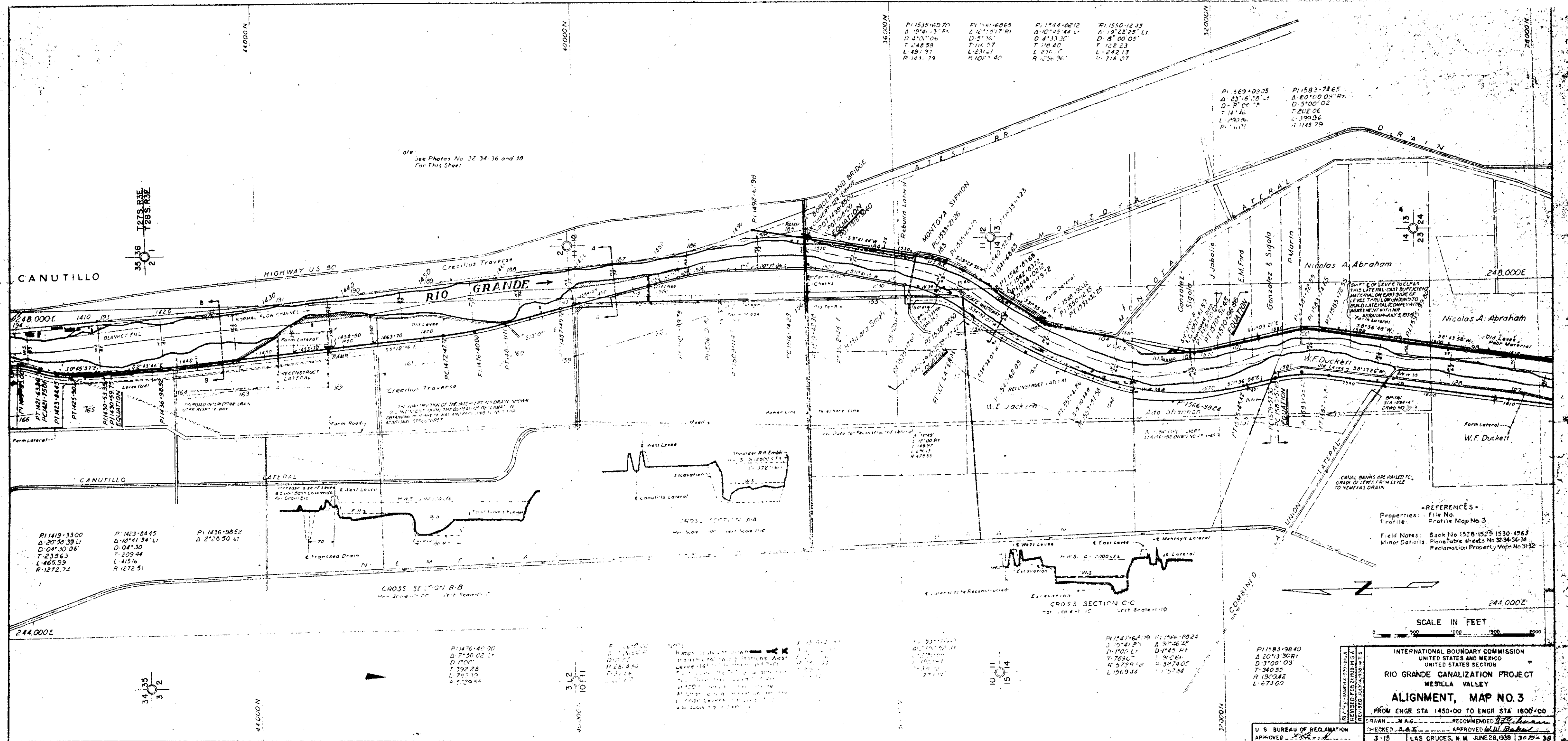


APPENDIX H RGCP CONSTRUCTION DRAWINGS







REFERENCES -
Properties: File No. Profile Map No. 3
Field Notes: Book No. 1528-1529 1530-1563
Minor Details: Plan Table sheets No. 32-34-36-38
Reclamation Property Map No. 31-32

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY

ALIGNMENT, MAP NO. 3
FROM ENGR STA. 1450+00 TO ENGR STA. 1800+00

U.S. BUREAU OF RECLAMATION
APPROVED: [Signature]
3-15 LAS CRUCES, N.M. JUNE 28, 1938
Sheet 9 of 12

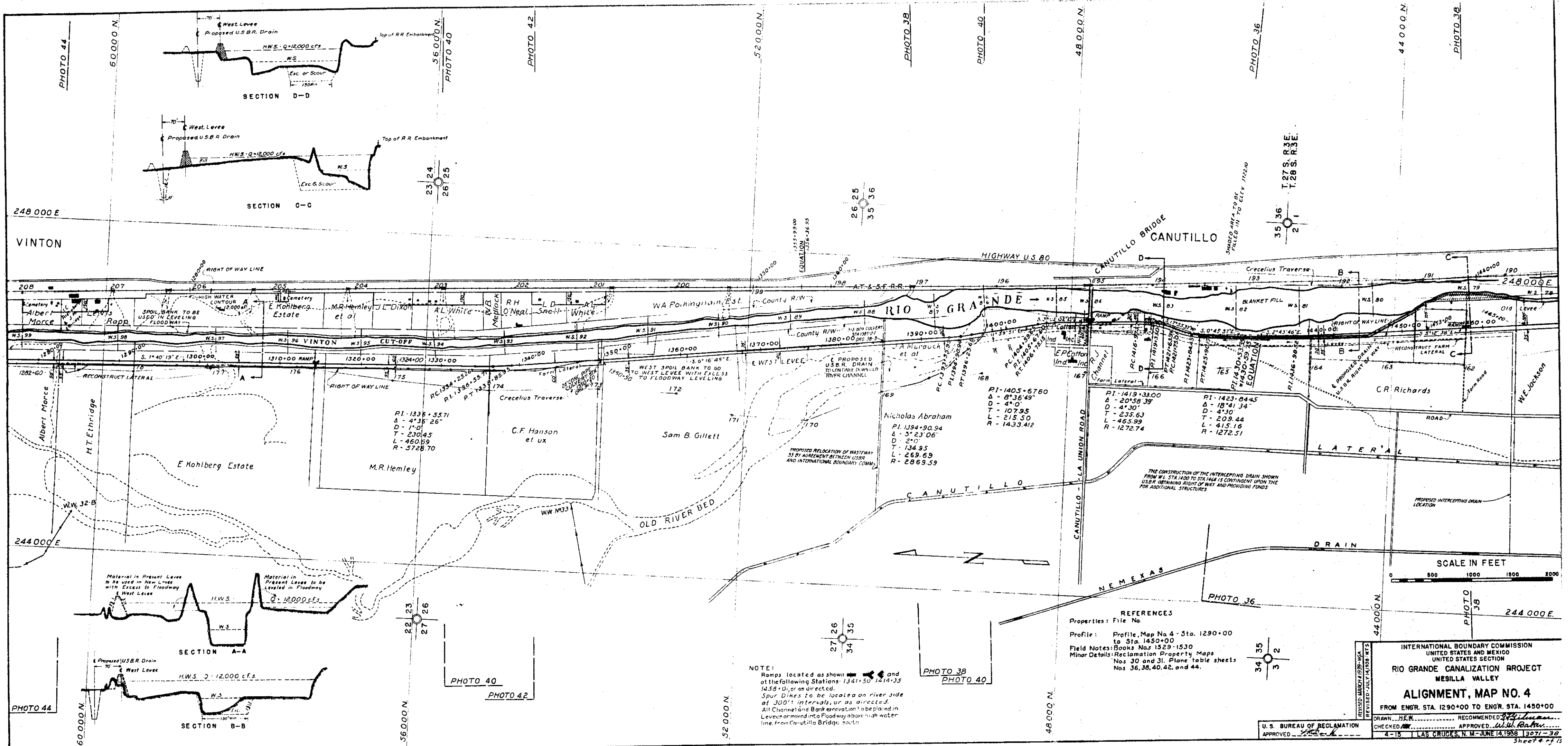


PHOTO 44

PHOTO 42

PHOTO 38

PHOTO 40

PHOTO 36

PHOTO 38

PHOTO 44

PHOTO 40

PHOTO 42

PHOTO 38
PHOTO 40

PHOTO 36

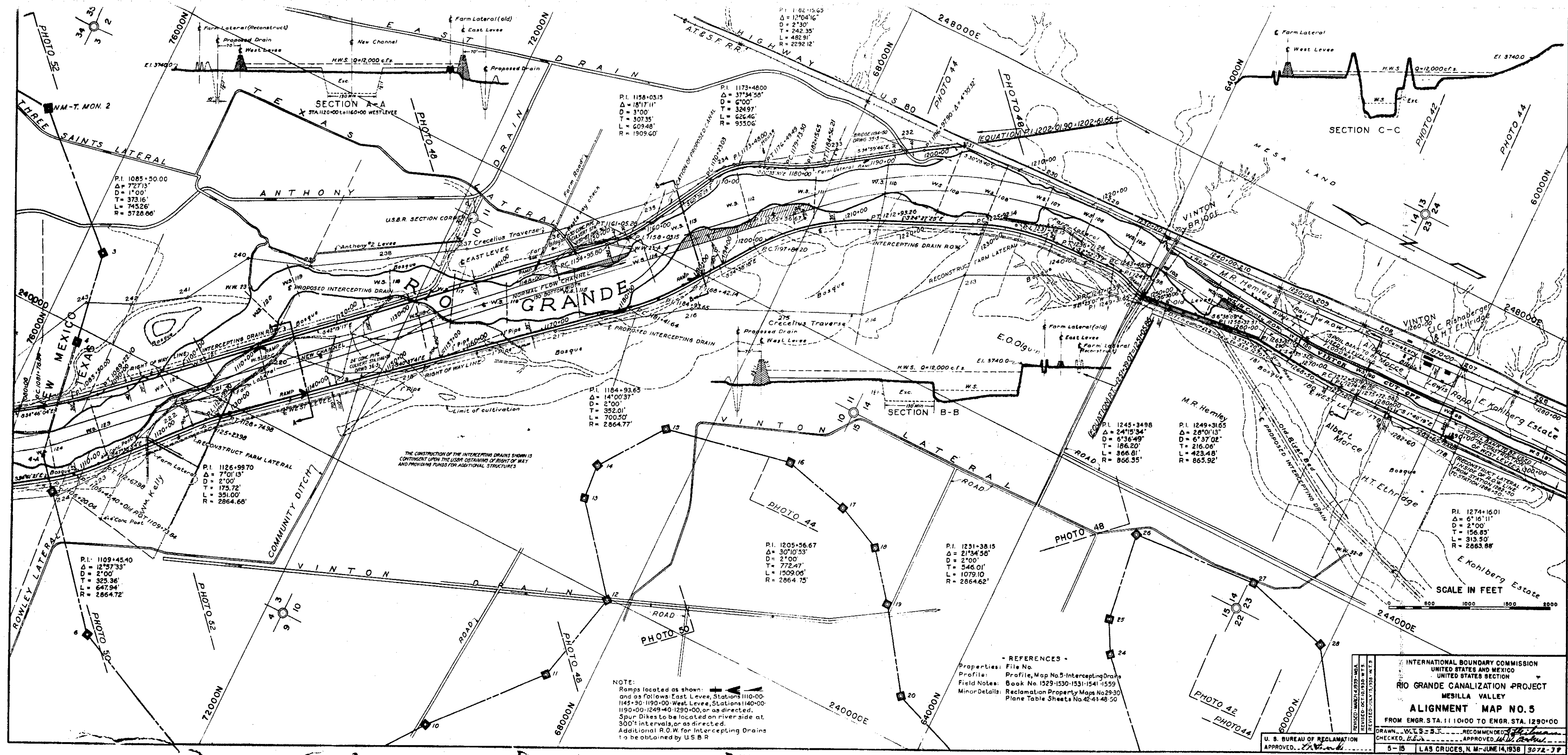
PHOTO 38

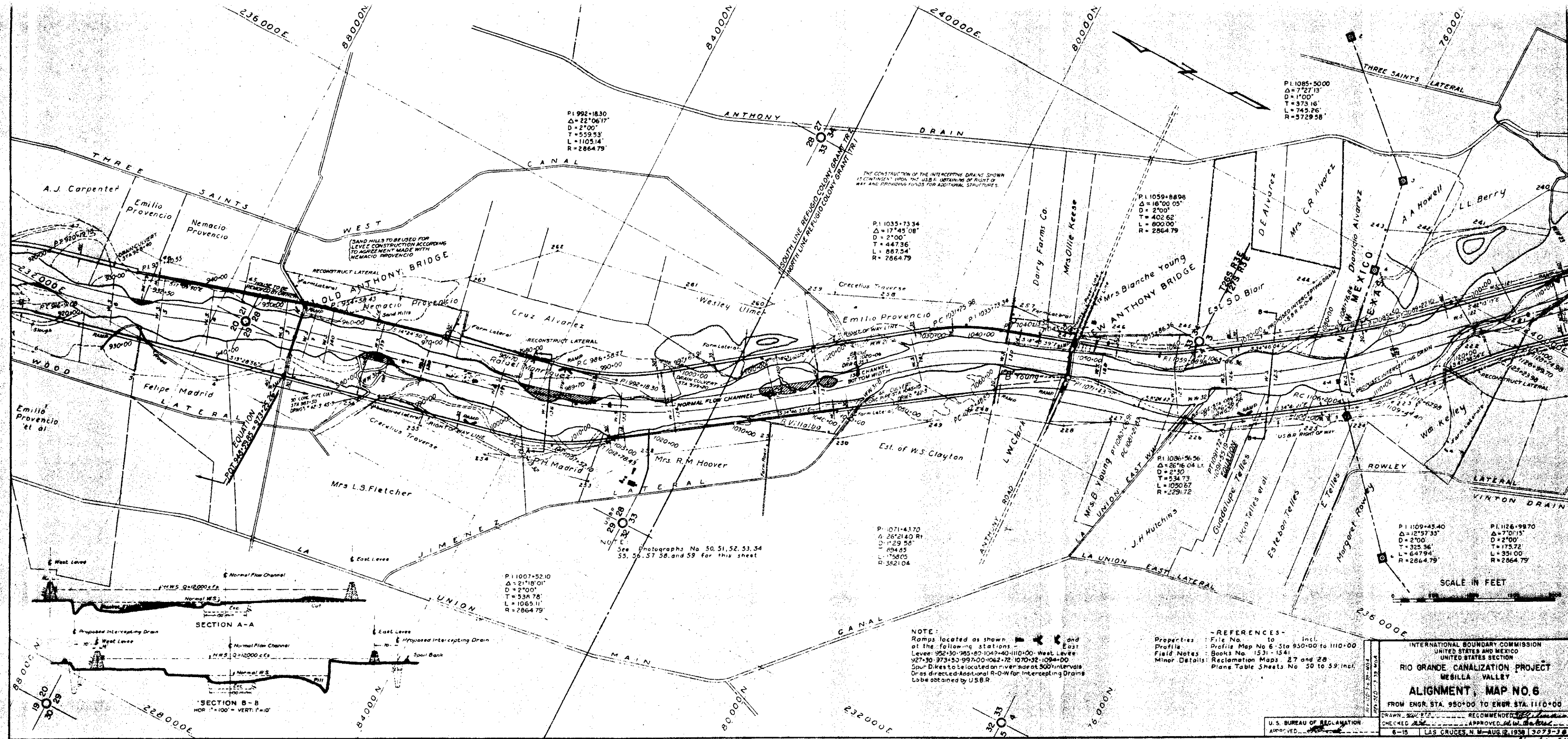
NOTE:
Ramps located as shown and at the following Stations: 1341+50, 1414+35, 1458+00, or as directed.
Spur Dikes to be located on river side at 300' intervals, or as directed.
All Channel and Bank elevations obtained in Levee or moved into Floodway above high water line from Canutillo Bridge south.

REFERENCES
Properties: File No.
Profile: Profile Map No. 4 - Sta. 1290+00 to Sta. 1450+00
Field Notes: Books Nos. 1529-1530
Minor Details: Reclamation Property Maps Nos. 30 and 31. Plane table sheets Nos. 36, 38, 40, 42, and 44.

U. S. BUREAU OF RECLAMATION
APPROVED: [Signature]

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY
ALIGNMENT, MAP NO. 4
FROM ENGR. STA. 1290+00 TO ENGR. STA. 1450+00
DRAWN: [Signature] RECOMMENDED: [Signature]
CHECKED: [Signature] APPROVED: [Signature]
4-15 LAS CRUCES, N. M. - JUNE 14, 1958 13071-38
Sheet # of 12





P1 992+18.30
Δ = 22°06'17"
D = 2°00'
T = 559.53
L = 1105.14
R = 2864.79

P1 1035+73.34
Δ = 17°45'08"
D = 2°00'
T = 447.36
L = 887.54
R = 2864.79

P1 1059+88.98
Δ = 16°00'05"
D = 2°00'
T = 402.62
L = 800.00
R = 2864.79

P1 1085+50.00
Δ = 7°27'13"
D = 1°00'
T = 373.16
L = 745.26
R = 5729.58

P1 1071+43.70
Δ = 26°14'04"
D = 2°00'
T = 534.73
L = 1050.67
R = 229.72

P1 1109+45.40
Δ = 12°57'33"
D = 2°00'
T = 325.36
L = 647.94
R = 2864.79

P1 1126+99.70
Δ = 7°01'15"
D = 2°00'
T = 175.72
L = 351.00
R = 2864.79

P1 1007+52.10
Δ = 21°18'01"
D = 2°00'
T = 534.78
L = 1065.11
R = 2864.79

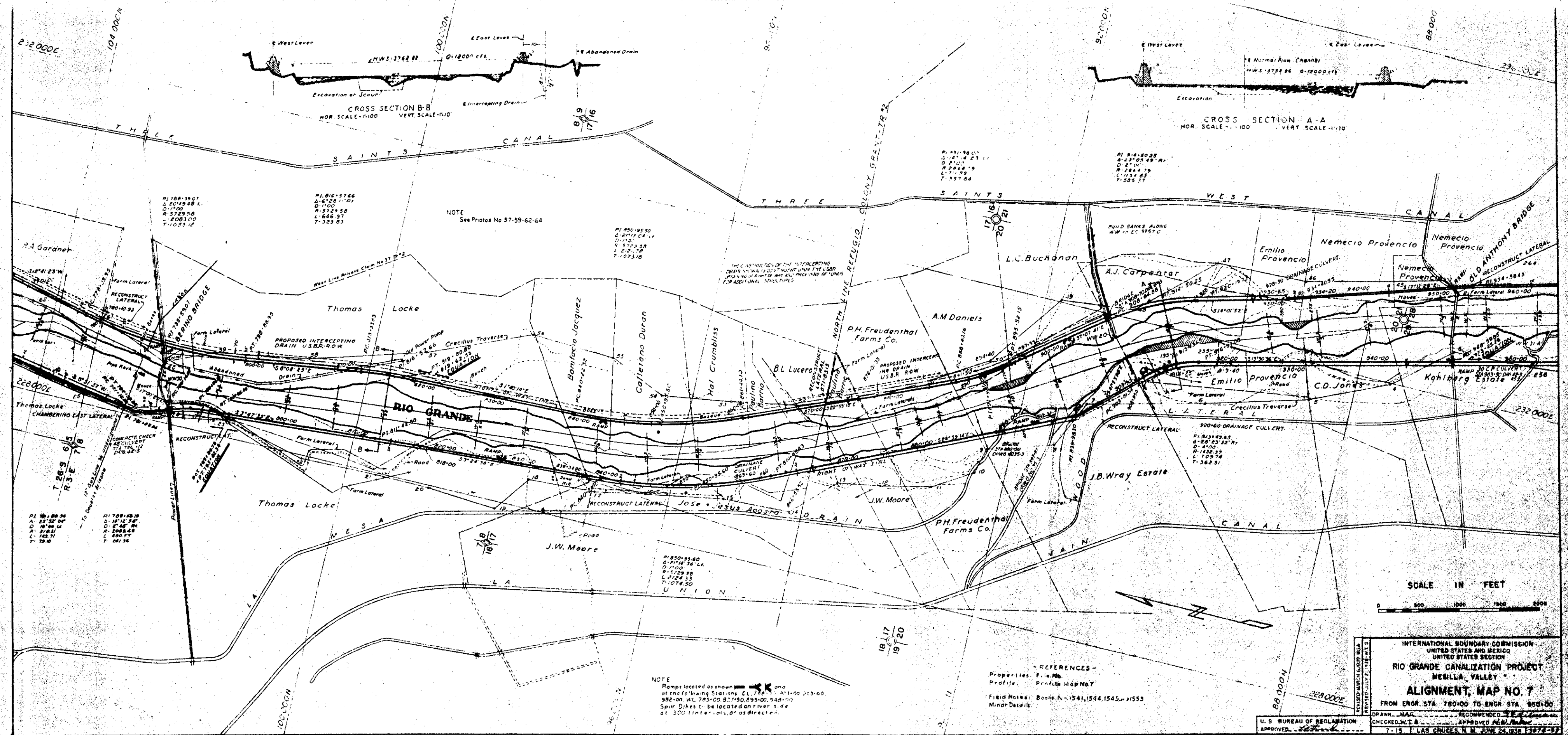
NOTE:
Ramps located as shown. * and * at the following stations:
Levee: 952+30, 965+80, 1043+40, 1110+00. West Levee: 927+30, 973+50, 997+00, 1062+72, 1070+32, 1094+00.
Spur Dike to be located on river side at 500' intervals.
Or as directed. Additional R.O.W. for Intersecting Drains to be obtained by U.S.B.R.

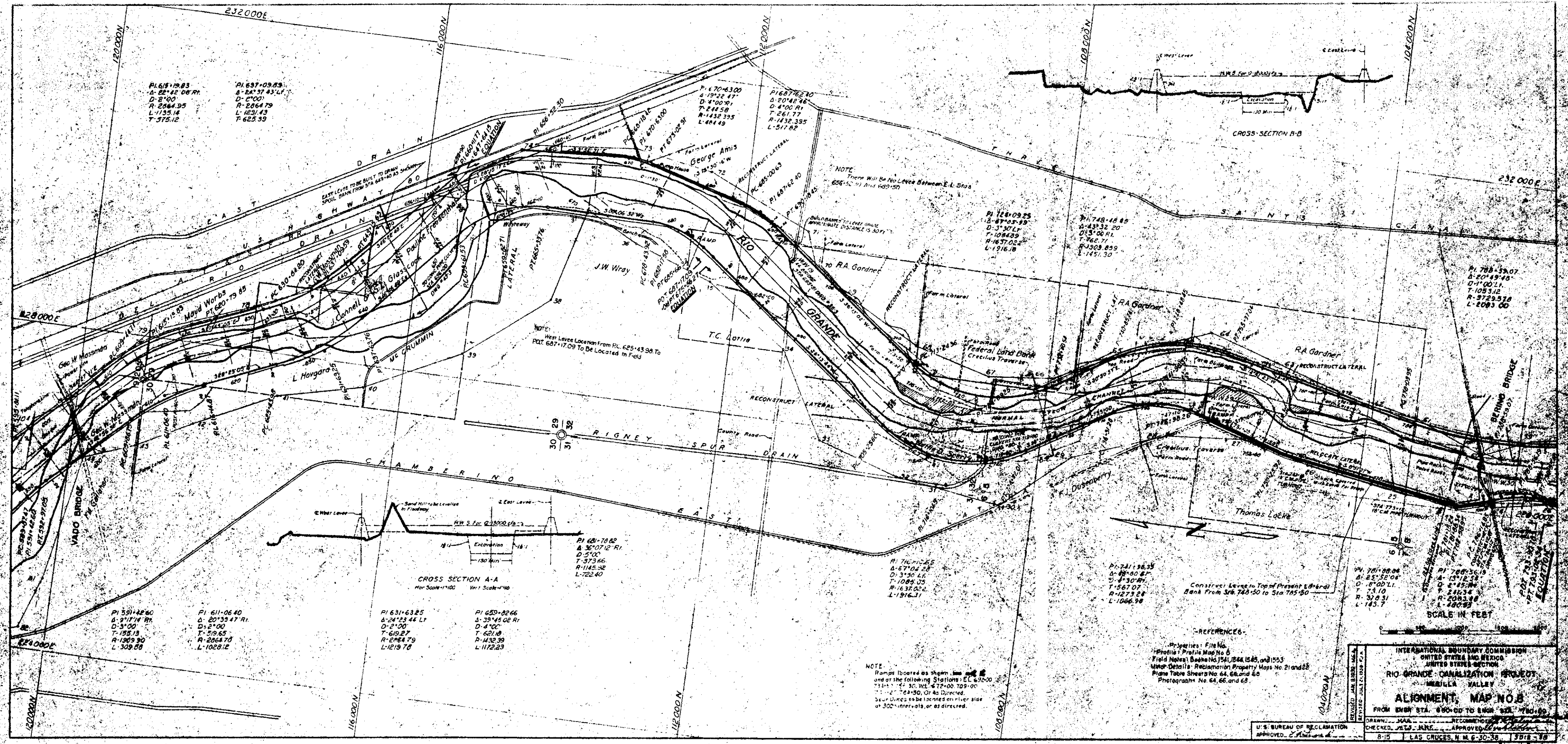
REFERENCES:
Properties: File No. to incl.
Profile: Profile Map No. 6: Sta 950+00 to 1110+00.
Field Notes: Books No. 1531-1541.
Minor Details: Reclamation Maps, 27 and 28.
Plans Table Sheets No. 50 to 59, incl.

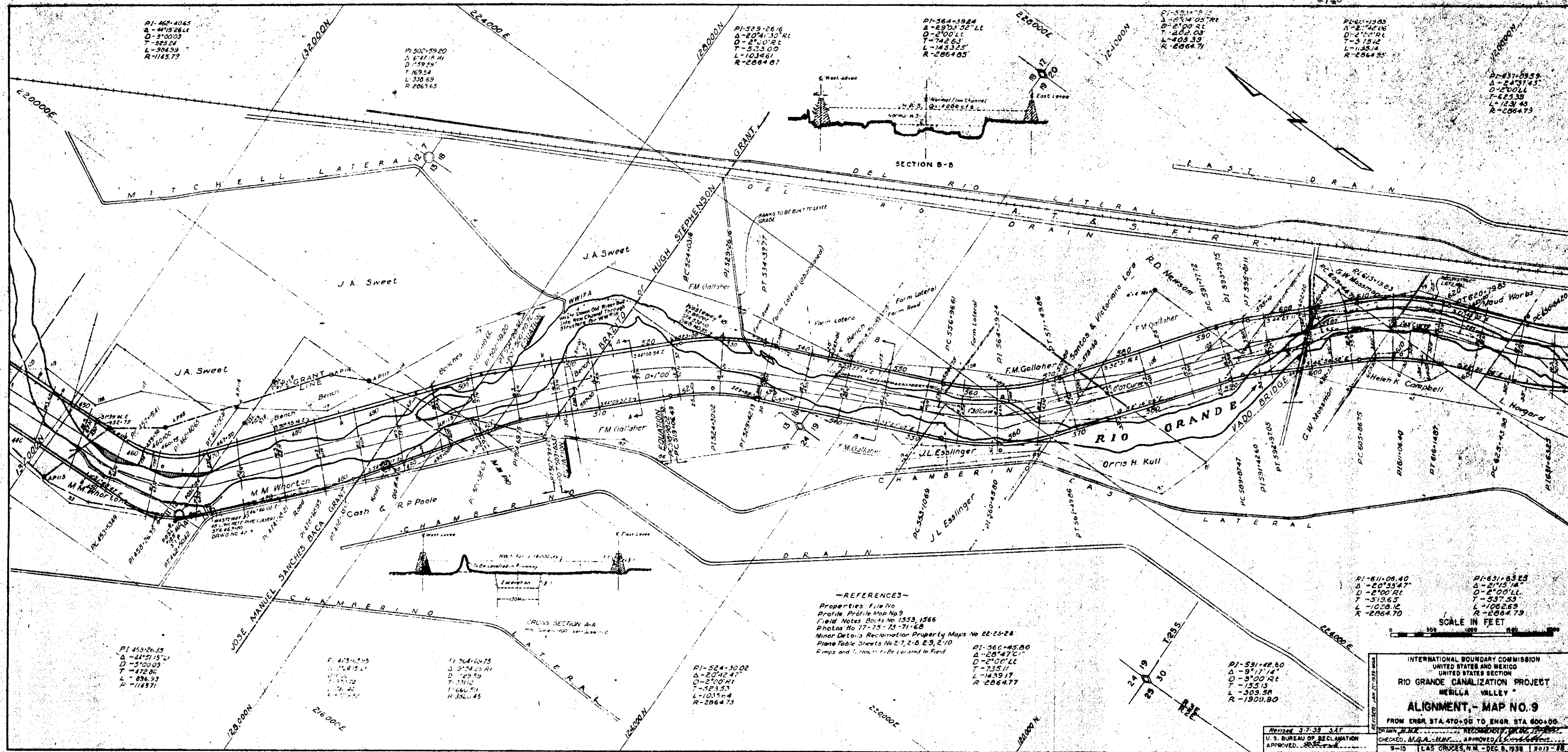
INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY
ALIGNMENT, MAP NO. 6
FROM ENGR. STA. 950+00 TO ENGR. STA. 1110+00

U.S. BUREAU OF RECLAMATION
APPROVED: [Signature]

DRAWN: [Signature] RECOMMENDED: [Signature]
CHECKED: [Signature] APPROVED: [Signature]
6-15 LAS CRUCES, N.M. - AUG. 12, 1938 3073-J-6







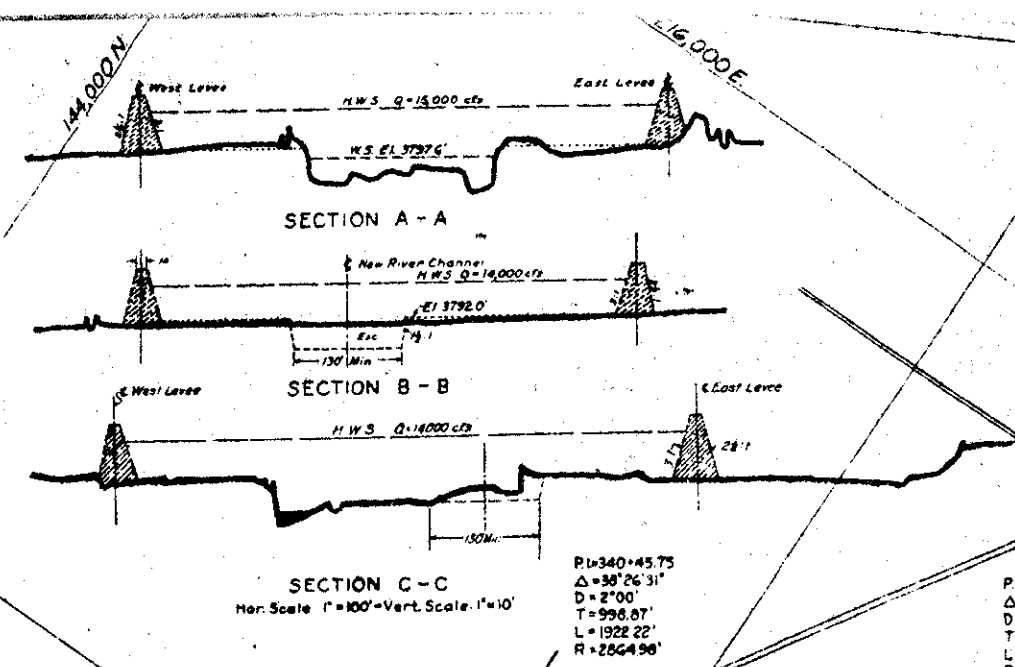
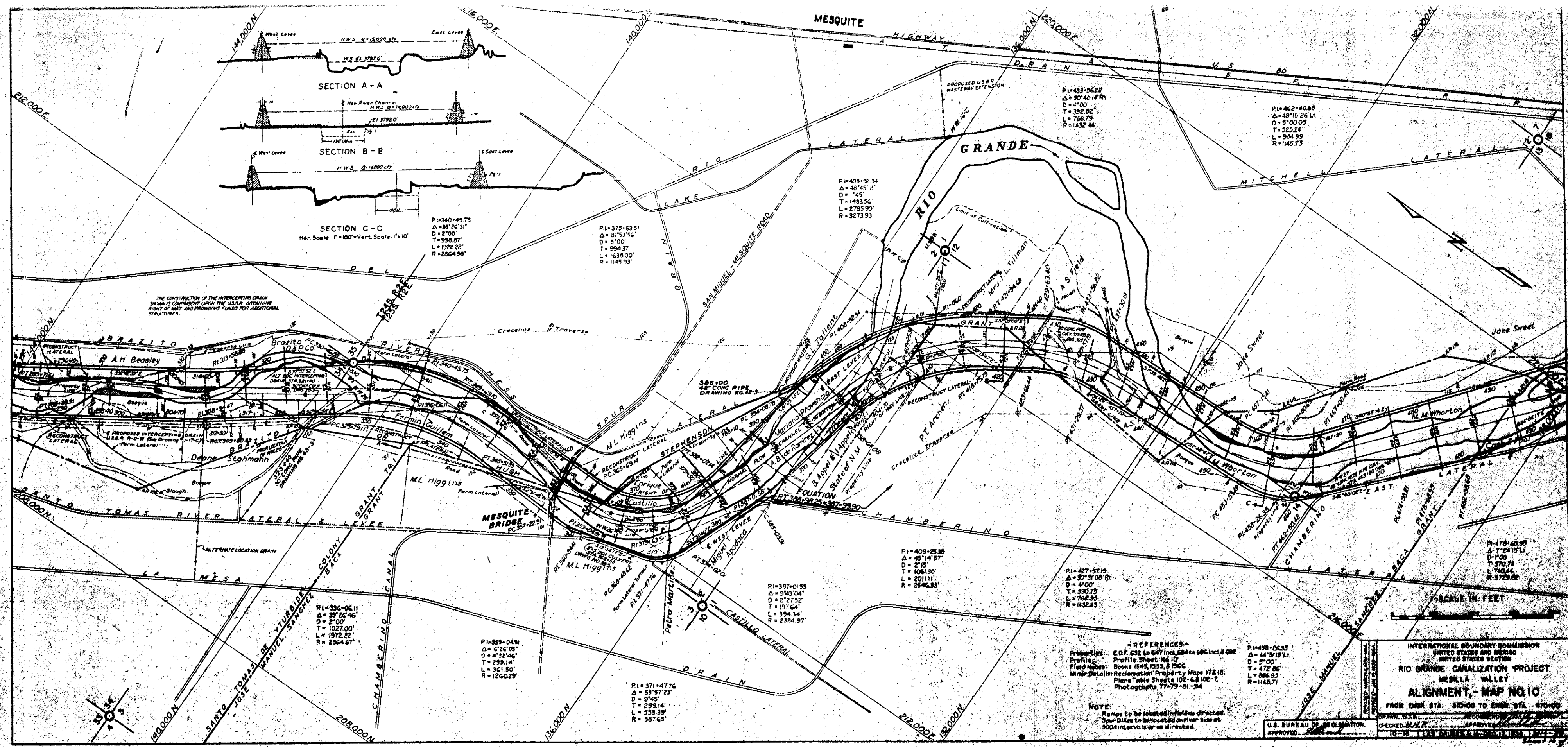
—REFERENCES—
Properties File No.
Profile Map No. 9
Field Notes, Books No. 1553, 1556
Photos No. 77-75-73-71-68
Minor Detour Reclamation Property Maps No. 22-23-24
Plane Table Sheets No. 27, 28, 29, 210
Ramps and "Thin" to be Located in Field

PI-611-06.40
Δ-21°15'14"
D-2°00'00"
T-519.65
L-1028.12
R-2864.70

PI-631-03.23
Δ-21°15'14"
D-2°00'00"
T-537.33
L-1028.69
R-2864.73

SCALE IN FEET
0 300 600 900 1200

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
RIO GRANDE CANALIZATION PROJECT
MEXICO VALLEY
ALIGNMENT - MAP NO. 9
FROM ENGR. STA. 470+00 TO ENGR. STA. 600+00
U.S. BUREAU OF RECLAMATION
APPROVED: [Signature]
9-15 LAS CRUCES, N.M. - DEC. 8, 1938 1913-38
Sheet 9 of 12



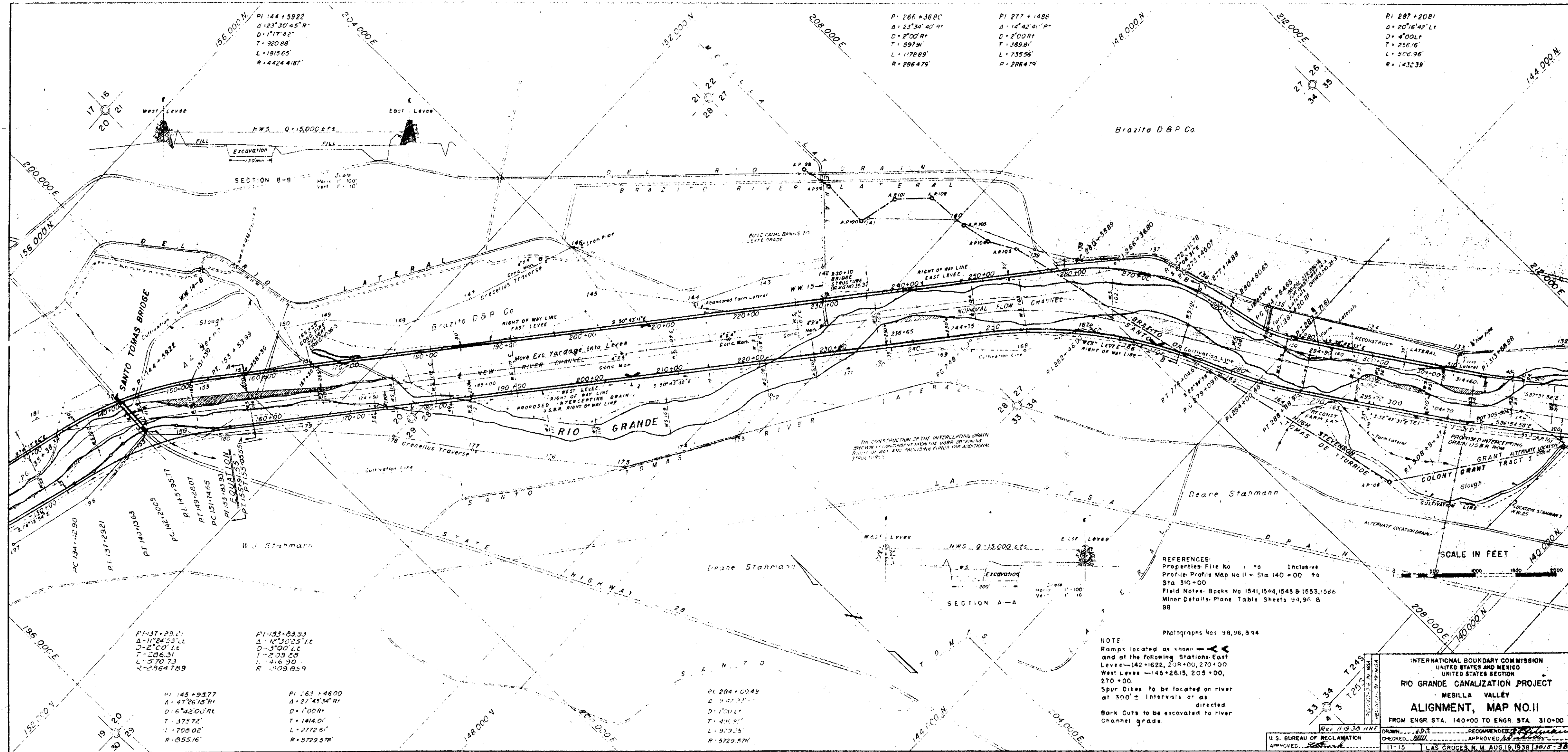
THE CONSTRUCTION OF THE INTERCEPTING DRAIN SHOWN IS CONTINGENT UPON THE U.S.R. OBTAINING RIGHT OF WAY AND PROVIDING FUNDS FOR ADDITIONAL STRUCTURES.

REFERENCES:
E.O.P. 632 to 647 incl. 648 to 666 incl. 667
Profile Sheet No. 10
Field Notes: Books 1843, 1553, 1566
Minor Details: Reclamation Property Maps 178, 18, 19
Plane Table Sheets 102-6, 102-7
Photographs 77-79-81-84

NOTE:
Pumps to be located in fields directed.
Spur Dikes to be located on river side at 500' intervals or as directed.

U.S. BUREAU OF RECLAMATION
APPROVED: [Signature]

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESQUITA VALLEY
ALIGNMENT, MAP NO. 10
FROM ENR. STA. 51000 TO ENR. STA. 47000
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED: [Signature]
10-15 (1915) [Signature]

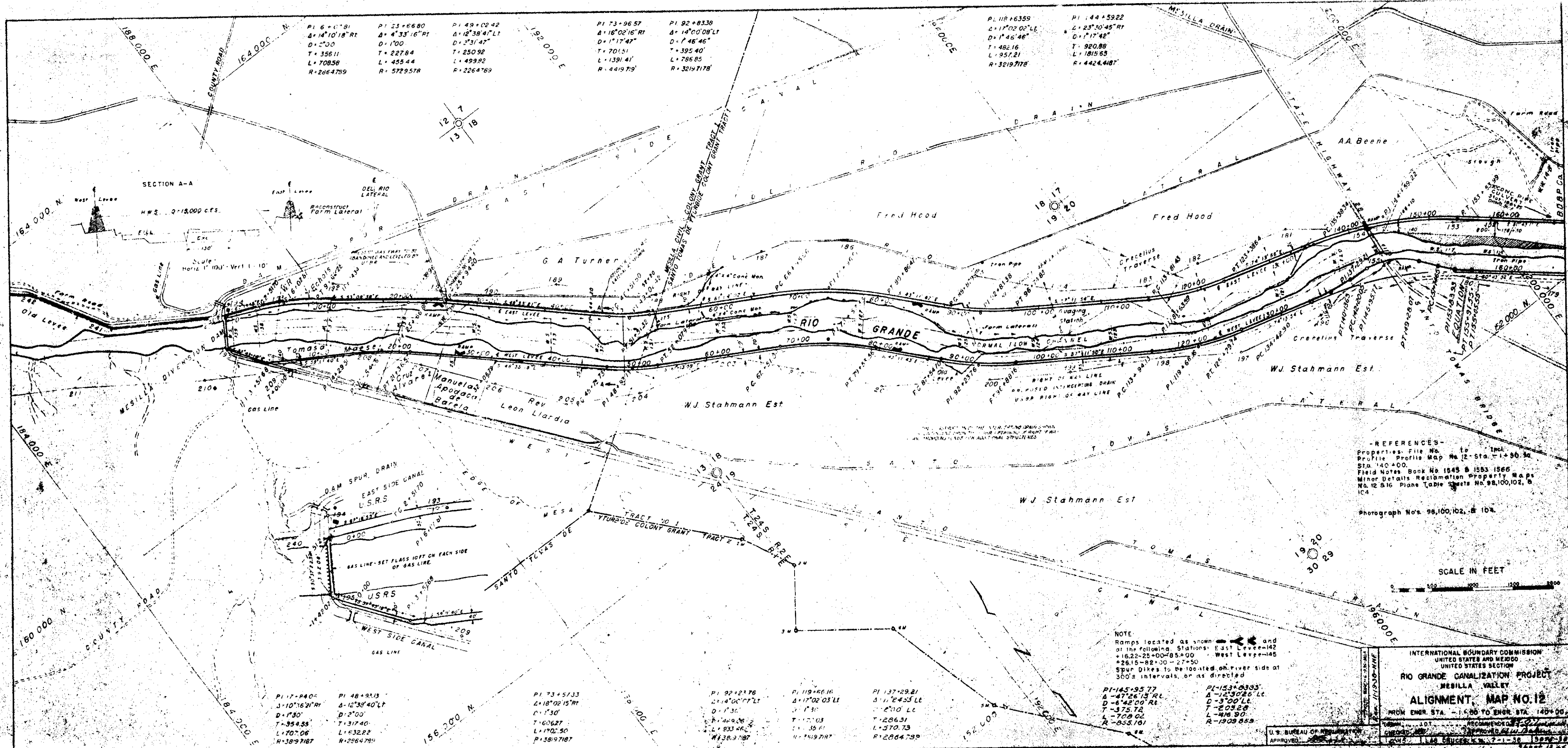


REFERENCES:
Properties: File No. 1 to Inclusive
Profile: Profile Map No. 11 - Sta 140+00 to Sta 310+00
Field Notes: Books No. 1541, 1544, 1545 & 1553, 1566
Minor Details: Plane Table Sheets 94, 96 & 98

NOTE:
Ramps located as shown $\leftarrow \leftarrow \leftarrow$
and at the following Stations: East
Levee - 142+622, 208+00, 270+00
West Levee - 145+2615, 205+00,
270+00.
Spur Dikes to be located on river
at 300'± intervals or as
directed
Bank Cuts to be excavated to river
Channel grade.

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY
ALIGNMENT, MAP NO. 11
FROM ENGR STA. 140+00 TO ENGR STA. 310+00

U.S. BUREAU OF RECLAMATION
APPROVED: *[Signature]*
11-15 LAS CRUCES, N.M. AUG 19, 1938 150/5-38
Sheet 11 of 12



REFERENCES
 Properties File No. 10
 Profile Map No. 12 Sta. 1+00.00
 Sta. 140+00
 Field Notes Book No. 1545 & 1553 1566
 Minor Details Reclamation Property Maps
 No. 12 & 16 Plane Table Sheets No. 98, 100, 102, & 104
 Photograph No. 98, 100, 102, & 104



NOTE
 Ramps located as shown and at the following Stations: East Levee-142+25, 145+00, 148+00, 150+00, 152+00, 154+00, 155+00
 West Levee-145+25, 148+00, 150+00, 152+00, 154+00, 155+00
 Spur Dikes to be located on river side at 300' intervals, or as directed

INTERNATIONAL BOUNDARY COMMISSION
 UNITED STATES AND MEXICO
 UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
 MESILLA VALLEY
ALIGNMENT, MAP NO. 12
 FROM ENGR. STA. 1+00 TO ENGR. STA. 155+00
 U.S. BUREAU OF RECLAMATION
 APPROVED: [Signature] DATE: 1-1-36
 DRAWN: [Signature] CHECKED: [Signature]

PI 17+00
Δ=10°16'21" RT
D=1°30'
T=354.55
L=707.06
R=389.7187

PI 48+91.3
Δ=12°38'40" LT
D=2°00'
T=317.40
L=632.22
R=286.4794

PI 73+51.33
Δ=18°02'15" RT
D=1°30'
T=606.27
L=1702.30
R=389.7187

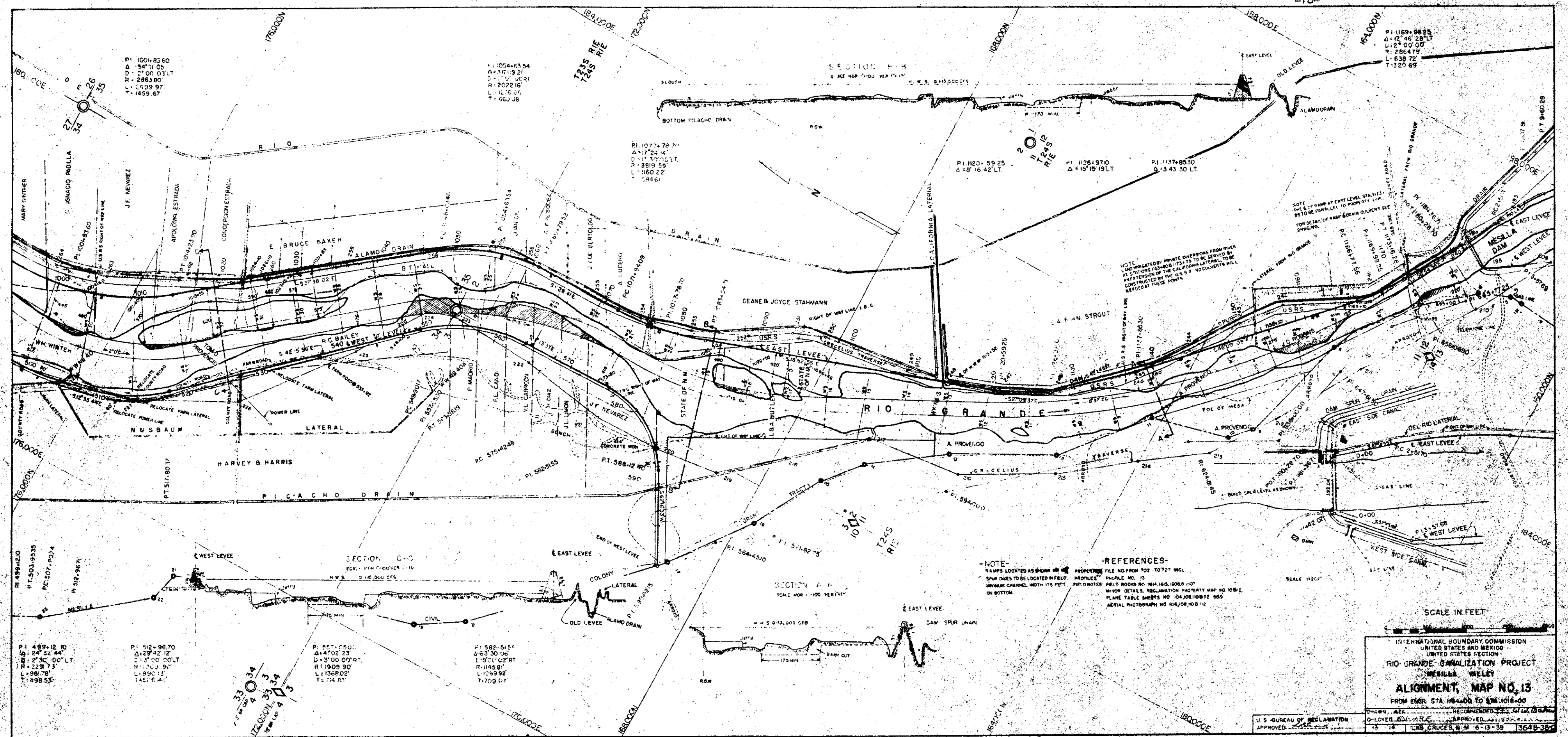
PI 92+27.76
Δ=14°00'03" LT
D=1°30'
T=449.06
L=933.46
R=389.7187

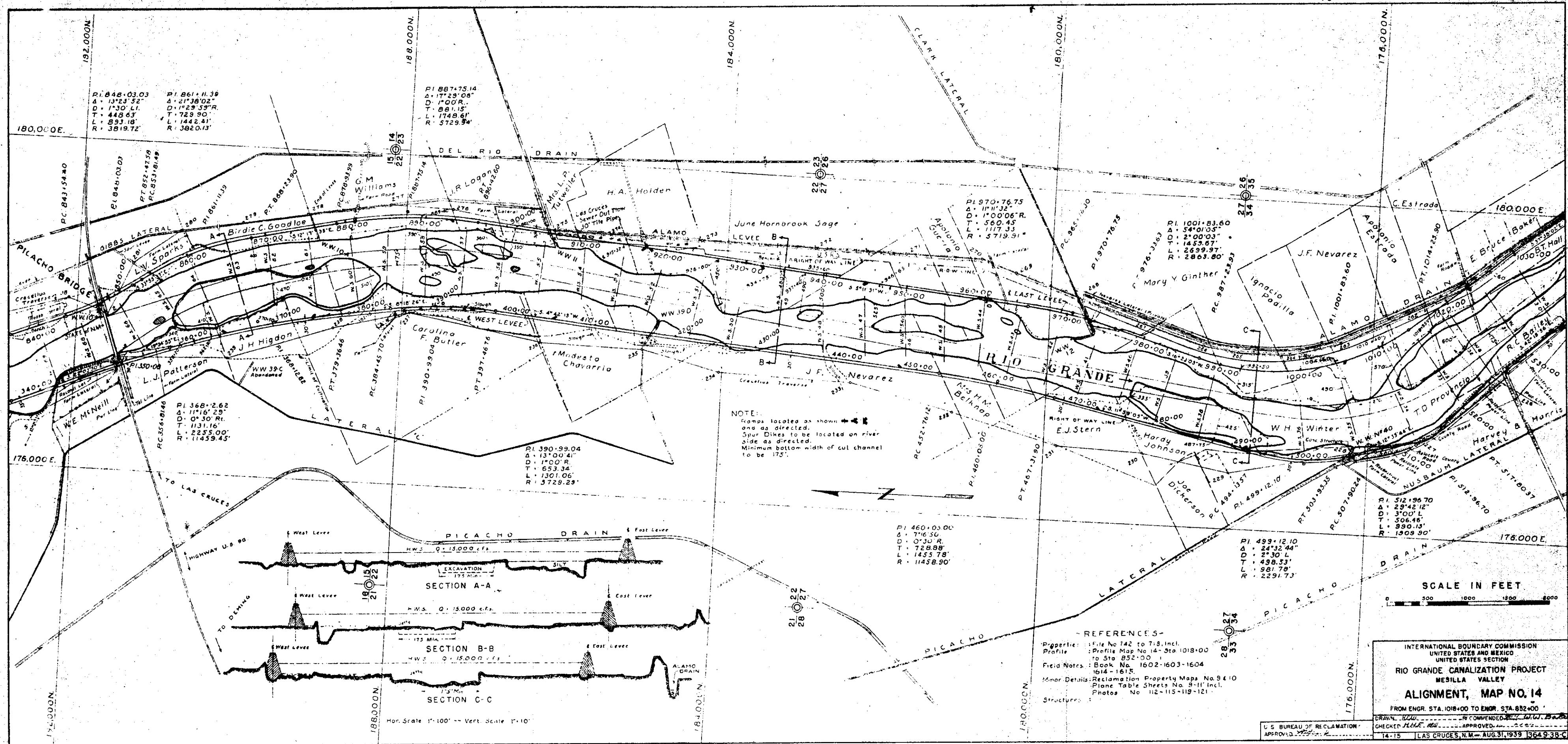
PI 119+56.16
Δ=17°02'03" LT
D=1°30'
T=171.03
L=350.73
R=389.7187

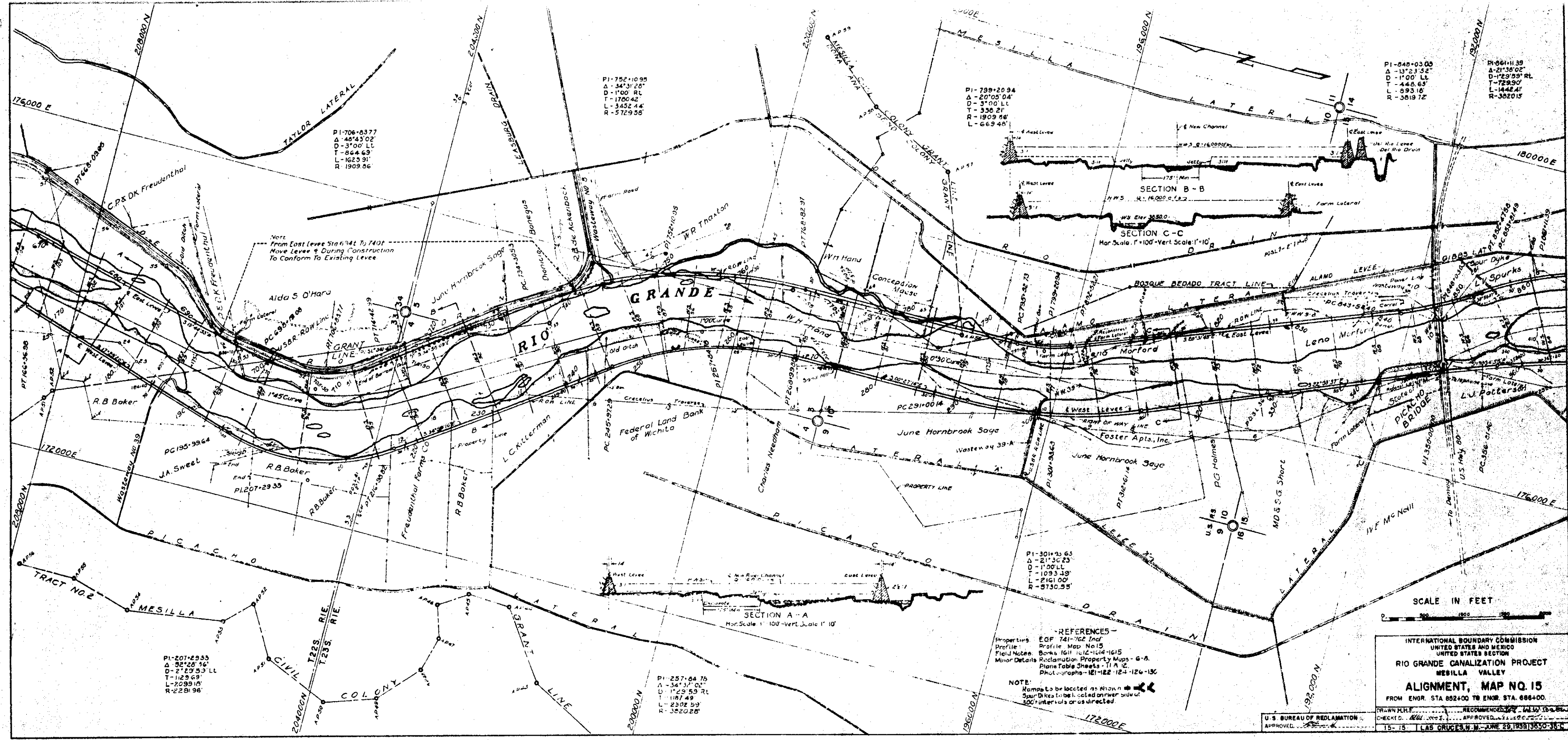
PI 137+29.21
Δ=11°24'55" LT
D=2°00' LT
T=286.31
L=570.73
R=286.4739

PI 145+95.77
Δ=7°26'15" RL
D=6°42'00" RL
T=375.72
L=709.02
R=855.161

PI 153+03.93
Δ=12°30'26" LT
D=3°00' LT
T=209.28
L=418.90
R=190.859







Note:
From East Levee Station 7401 To 7401
Move Levee & During Construction
To Conform To Existing Levee

PI-752-1095
Δ-34°31'28"
D-1°00' RL
T-170042
L-3452.44
R-572958

PI-789-2094
Δ-20°05'04"
D-3°00' LC
T-336.21
L-1909.68
R-669.48

PI-845-0303
Δ-13°23'52"
D-1°00' LC
T-448.63
L-893.16
R-3819.72

PI-861-1139
Δ-21°36'02"
D-1°29'59" RL
T-729.90
L-1442.41
R-3820.15

PI-207-2933
Δ-32°28'36"
D-2°29'53" LL
T-123.69
L-2099.18
R-2291.96

PI-257-6476
Δ-34°31'02"
D-1°29'59" RL
T-1167.49
L-2302.59
R-3820.25

PI-301-9363
Δ-21°36'23"
D-1°00' LC
T-1093.39
L-2161.00
R-5730.55

SECTION A-A
Hor. Scale 1"=100' Vert. Scale 1"=10'

SECTION B-B
Hor. Scale 1"=100' Vert. Scale 1"=10'

SECTION C-C
Hor. Scale 1"=100' Vert. Scale 1"=10'

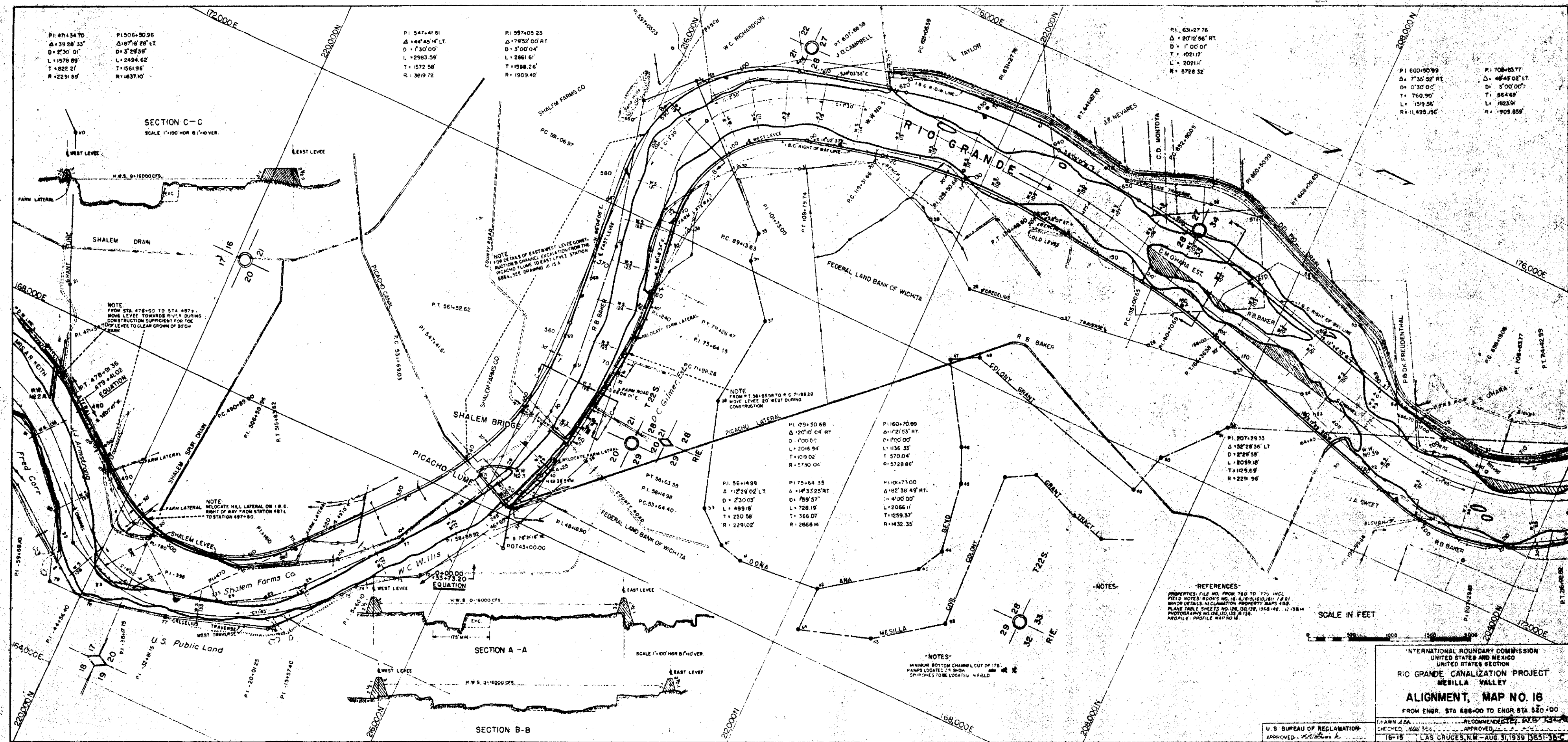
- REFERENCES -
- Properties: EOP 741-762 Incl.
 - Profile: Map No. 15
 - Field Notes: Books 1611, 1612, 1614, 1615
 - Minor Details: Reclamation Property Maps - G-8, Plans Table Sheets - T-1 A, B, C
 - Photographs: 121-122, 124-126-130

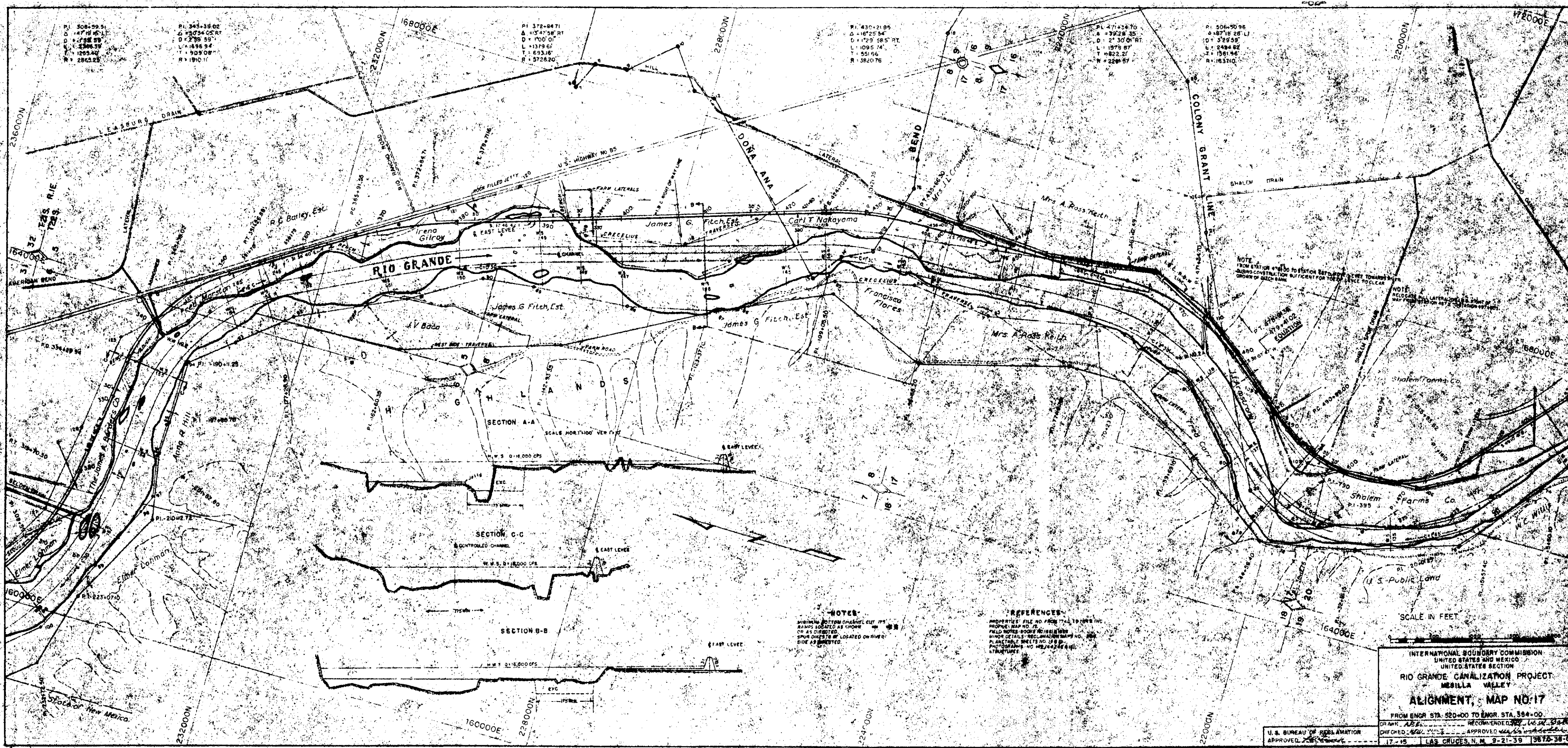
NOTE:
Ramps to be located as shown
Spur Dikes to be located on river side at
100' intervals or as directed.



INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY
ALIGNMENT, MAP NO. 15
FROM ENGR. STA. 882+00 TO ENGR. STA. 886+00

U.S. BUREAU OF RECLAMATION
CHECKED: [Signature] APPROVED: [Signature]
15-15 LAS CRUCES, N.M. - JUNE 29, 1938 13650-36.4





PI 308-99.51
D = 147' 10" LT
L = 1255.40
R = 2863.25

PI 343-35.02
D = 3054' 00" RT
L = 1696.54
T = 909' 08"
R = 1910.11

PI 372-84.71
D = 1347' 58" RT
L = 1379.61
T = 693.16
R = 5726.20

PI 430-21.95
D = 1625' 54"
L = 1095.74
T = 551.66
R = 3820.76

PI 471-34.70
D = 3928' 35"
L = 1578.87
T = 822.27
R = 2201.57

PI 506-50.96
D = 8718' 28" LT
L = 2494.82
T = 1561.96
R = 16371.0

NOTE
FROM STATION 4+800 TO STATION 5+000, THE CANAL IS TO BE CONSTRUCTED SUFFICIENT FOR THE LEVEE TO CLEAR
GROWTH OF SUCH BANK.

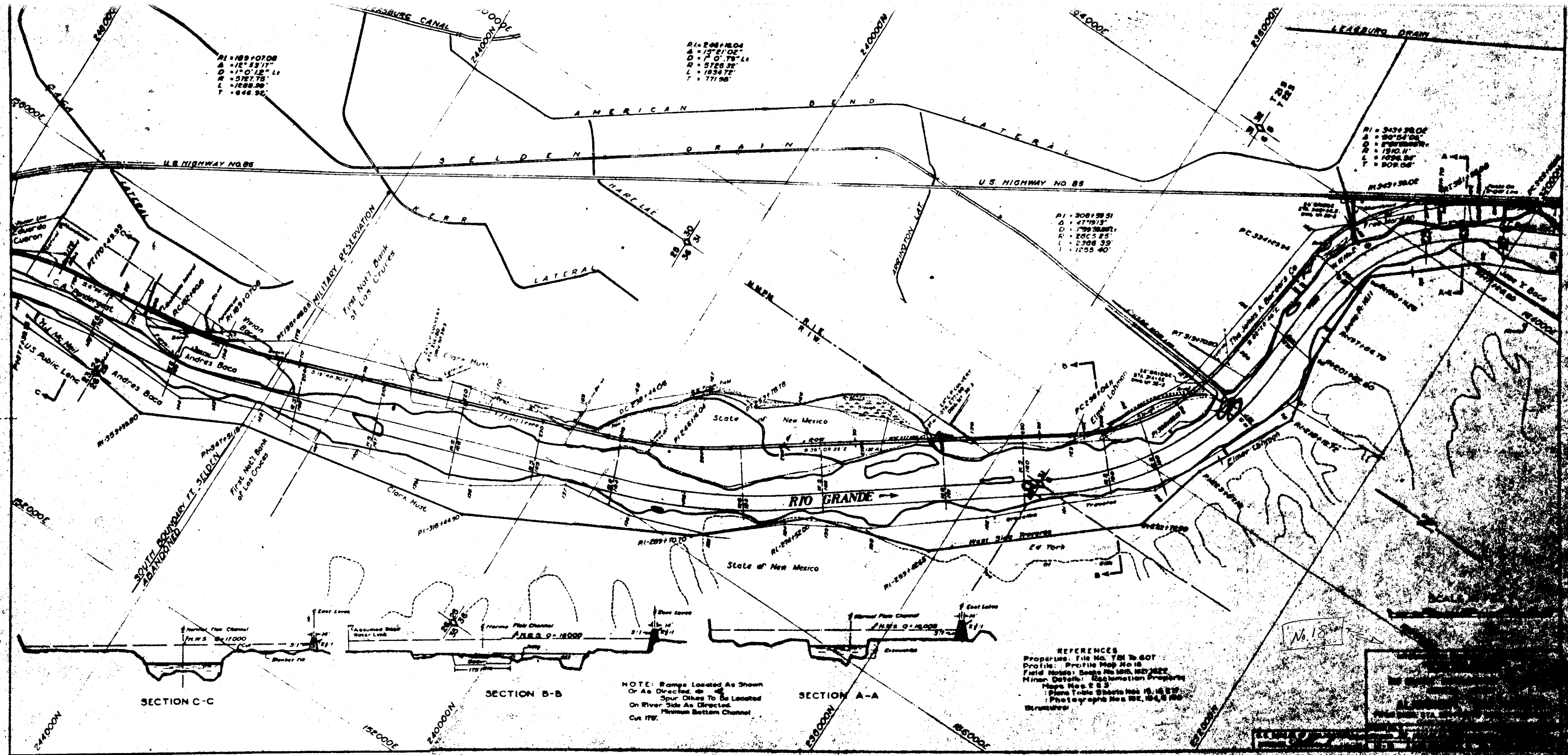
NOTE
RELEVANCE OF LATERAL DRAINAGE
WAY FROM STATION 4+750 TO STATION 4+800.

NOTES
MINIMUM BOTTOM CHANNEL CUT 1' 5"
RAMP LOCATED AS SHOWN
OR AS DETERMINED
SPUR DITCHES IF LOCATED ON RIVER
SIDE AS SHOWN.

REFERENCES
PROPERTY: FILE NO. FROM 1741 TO 1745 INC.
PROPOSED MAP NO. 17
FIELD NOTES: BOOK NO. 1818
MINOR DETAILS: RECLAMATION MAP NO. 100
PLACED: SHEETS NO. 18 & 19
PHOTOGRAPHS: NO. 46, 47 & 48
STRUCTURES:

SCALE IN FEET
0 100 200 300 400 500 600 700 800 900 1000

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
MESILLA VALLEY
ALIGNMENT, MAP NO. 17
FROM ENGR. STA. 520+00 TO ENGR. STA. 594+00
DRAWN: *AE* RECOMMENDED: *AE*
CHECKED: *AE* APPROVED: *AE*
U.S. BUREAU OF RECLAMATION
APPROVED: *AE*
17-15 LAS CRUCES, N.M. 9-21-39 1967-38-C



PI-189+0700
A = 12° 53' 17"
D = 1° 0' 12" L
R = 5727.75
L = 1288.50
T = 646.50

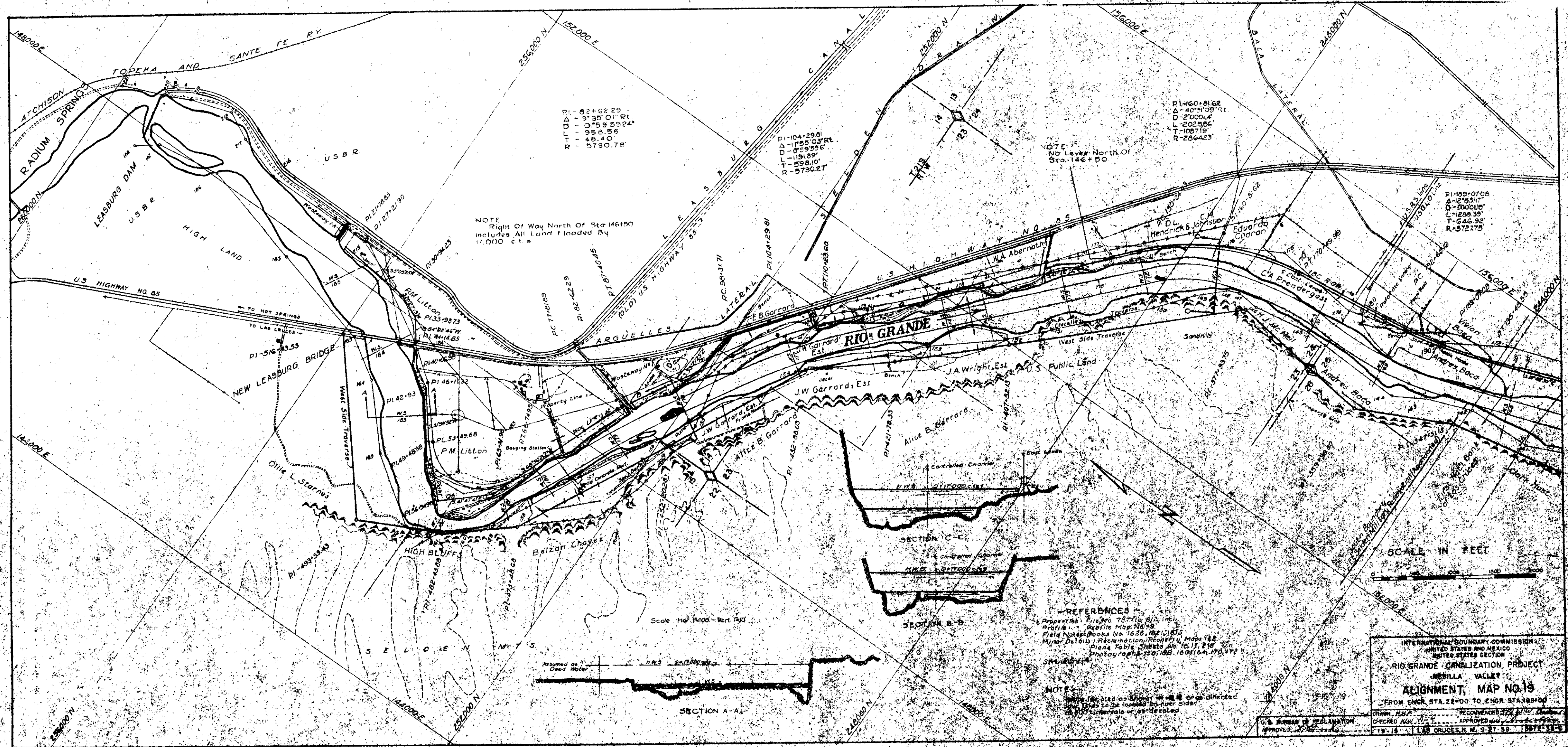
PI-200+1800
A = 15° 21' 02"
D = 1° 0' 12" L
R = 5728.52
L = 1834.72
T = 771.50

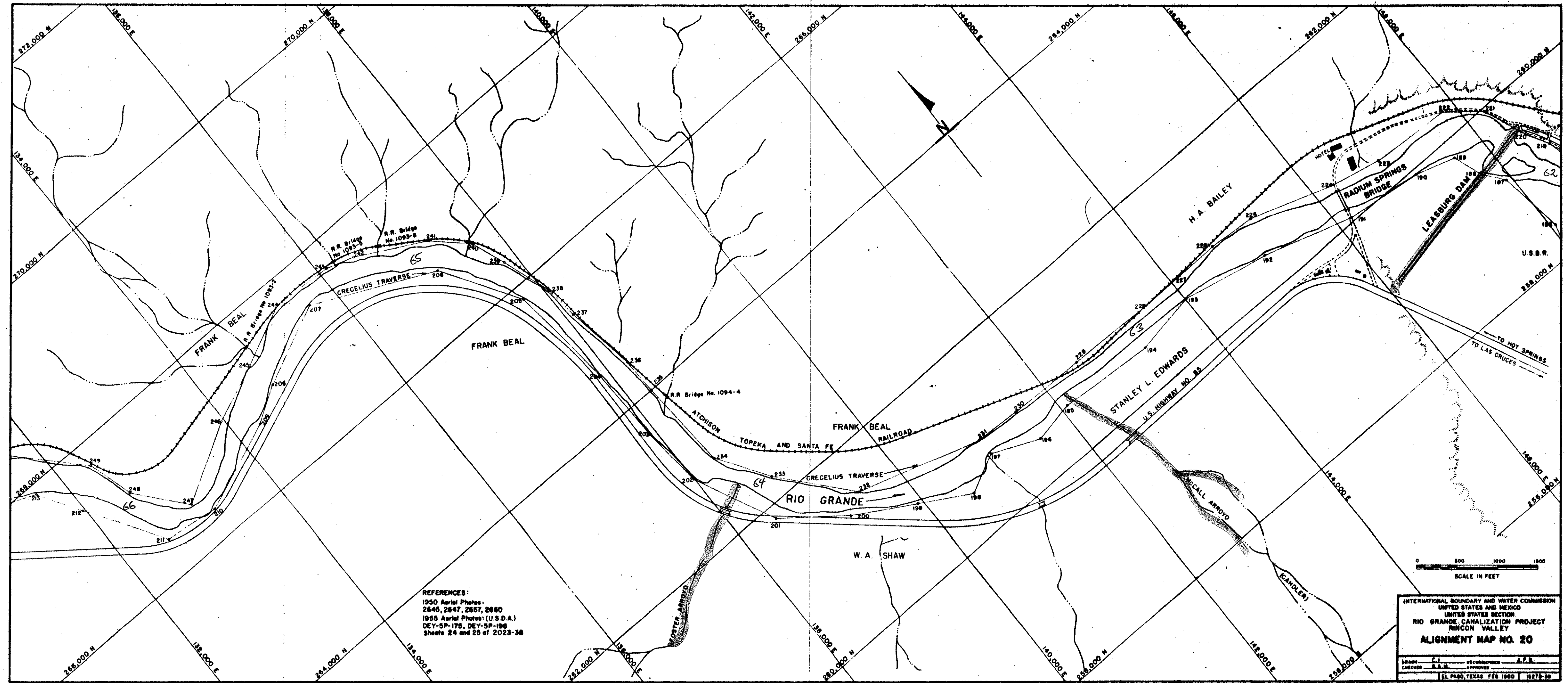
PI-308+5051
A = 47° 19' 13"
D = 1° 0' 12" L
R = 2065.85
L = 2706.39
T = 1255.40

PI-343+3800
A = 30° 24' 06"
D = 1° 0' 12" L
R = 1910.11
L = 1096.84
T = 909.08

REFERENCES
Properties: File No. 701 to 607
Profile: Profile Map No 18
Field Notes: Books No 100, 101, 102
Minor Details: Construction Reports
Maps: Nos. 2, 3, 4
Plans: Table Sheets Nos 15, 16, 17
Photographs: Nos 102, 104, 105
Structures

NOTE: Ramps Located As Shown
Or As Directed, Spur Dikes To Be Located
On River Side As Directed,
Minimum Bottom Channel
Cut 178.



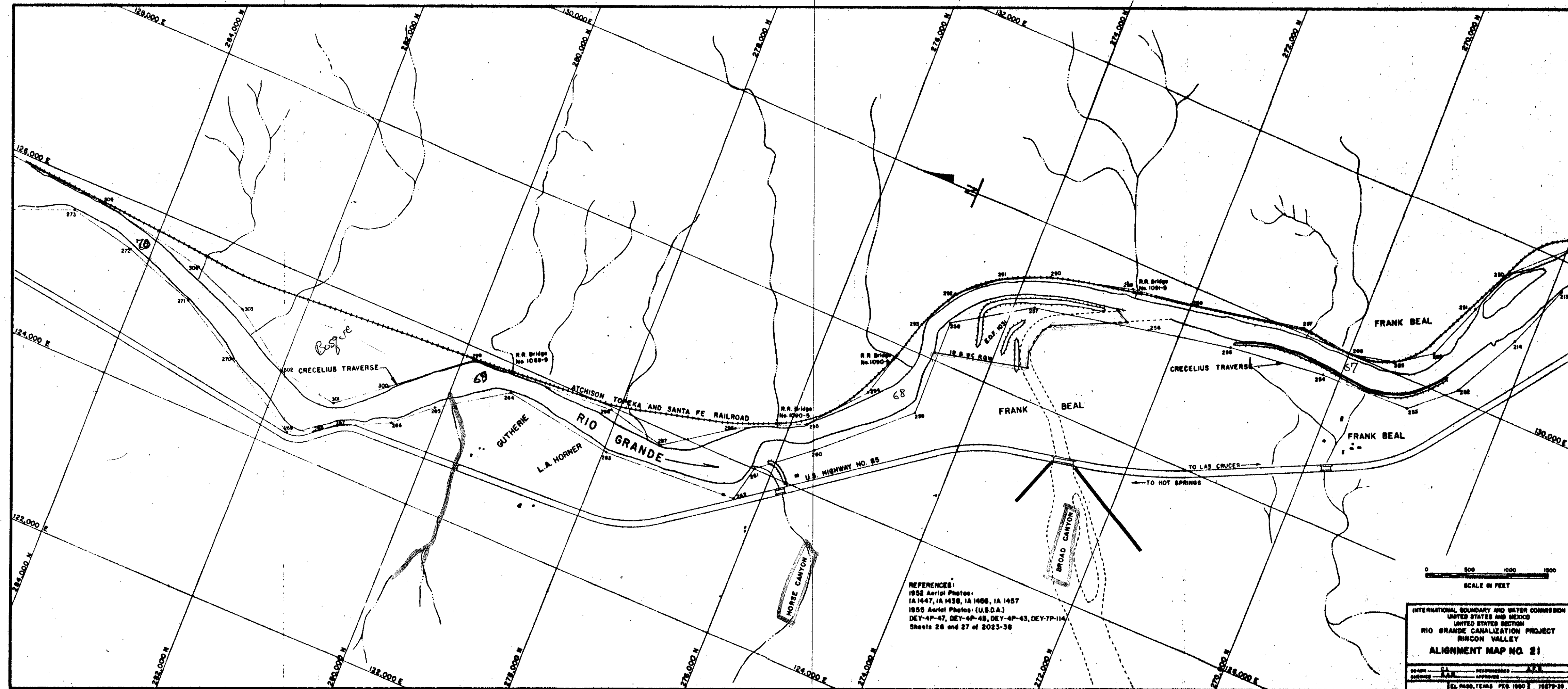


REFERENCES:
1950 Aerial Photos:
2646, 2647, 2657, 2660
1955 Aerial Photos: (U.S.D.A.)
DEY-5P-176, DEY-5P-196
Sheets 24 and 25 of 2023-38

0 500 1000 1500
SCALE IN FEET

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
RINCON VALLEY
ALIGNMENT MAP NO. 20

DESIGNED BY	C. J.	RECOMMENDED BY	A. P. R.
CHECKED BY	A. A. M.	APPROVED BY	
EL PASO, TEXAS FEB. 1960 15279-38			



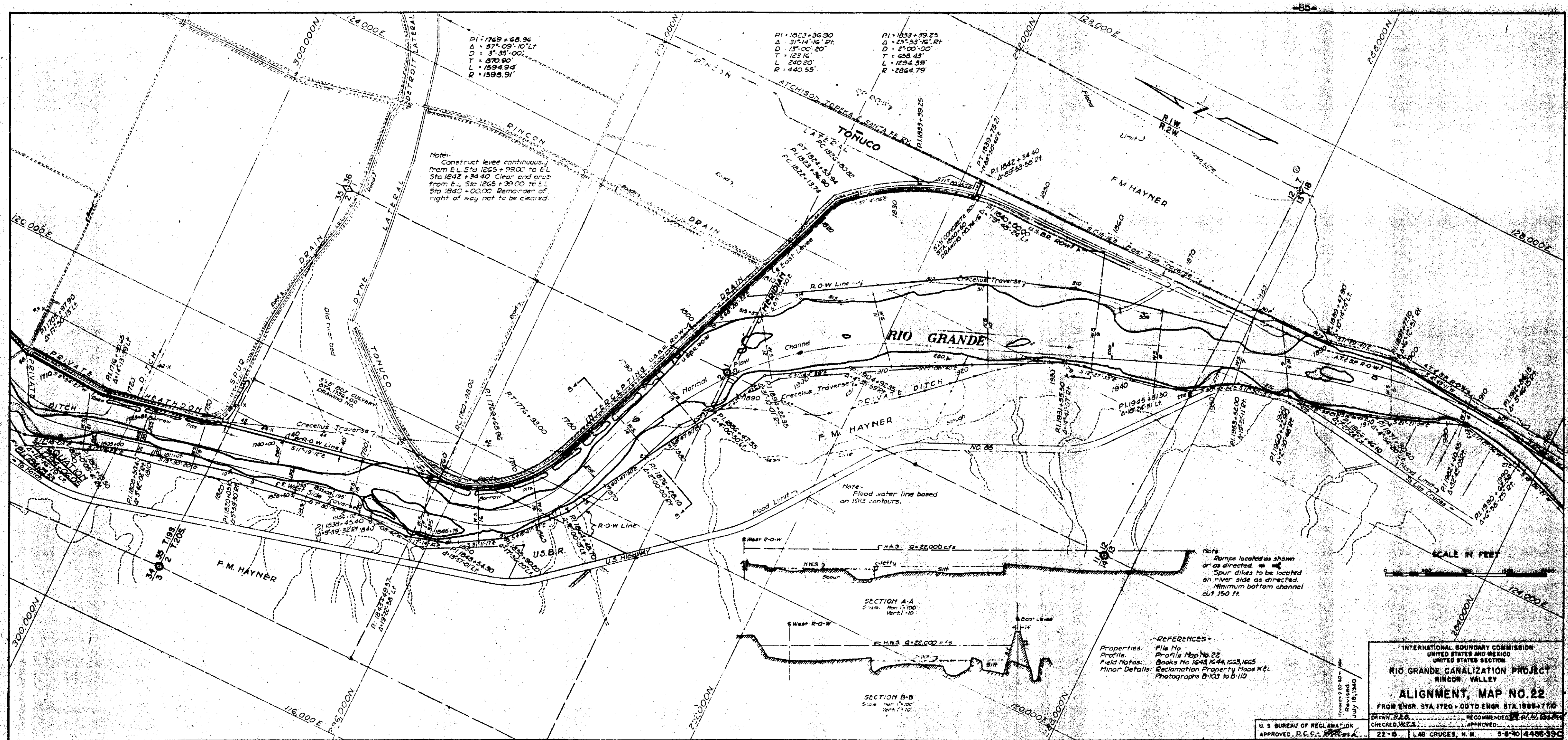
REFERENCES:
1952 Aerial Photos:
IA 1447, IA 1438, IA 1456, IA 1457
1955 Aerial Photos: (U.S.D.A.)
DEY-4P-47, DEY-4P-48, DEY-4P-43, DEY-7P-114
Sheets 26 and 27 of 2023-38

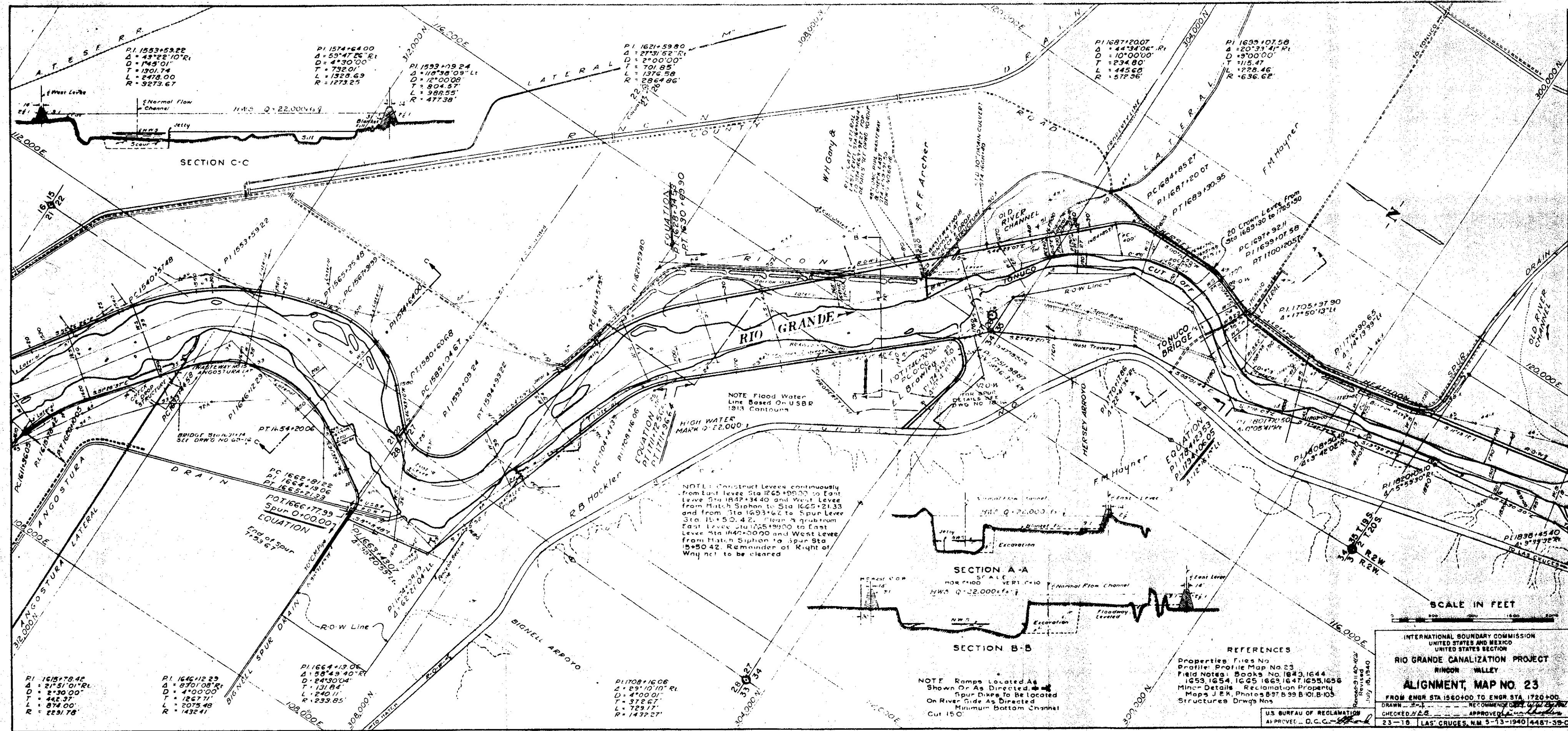
0 500 1000 1500
SCALE IN FEET

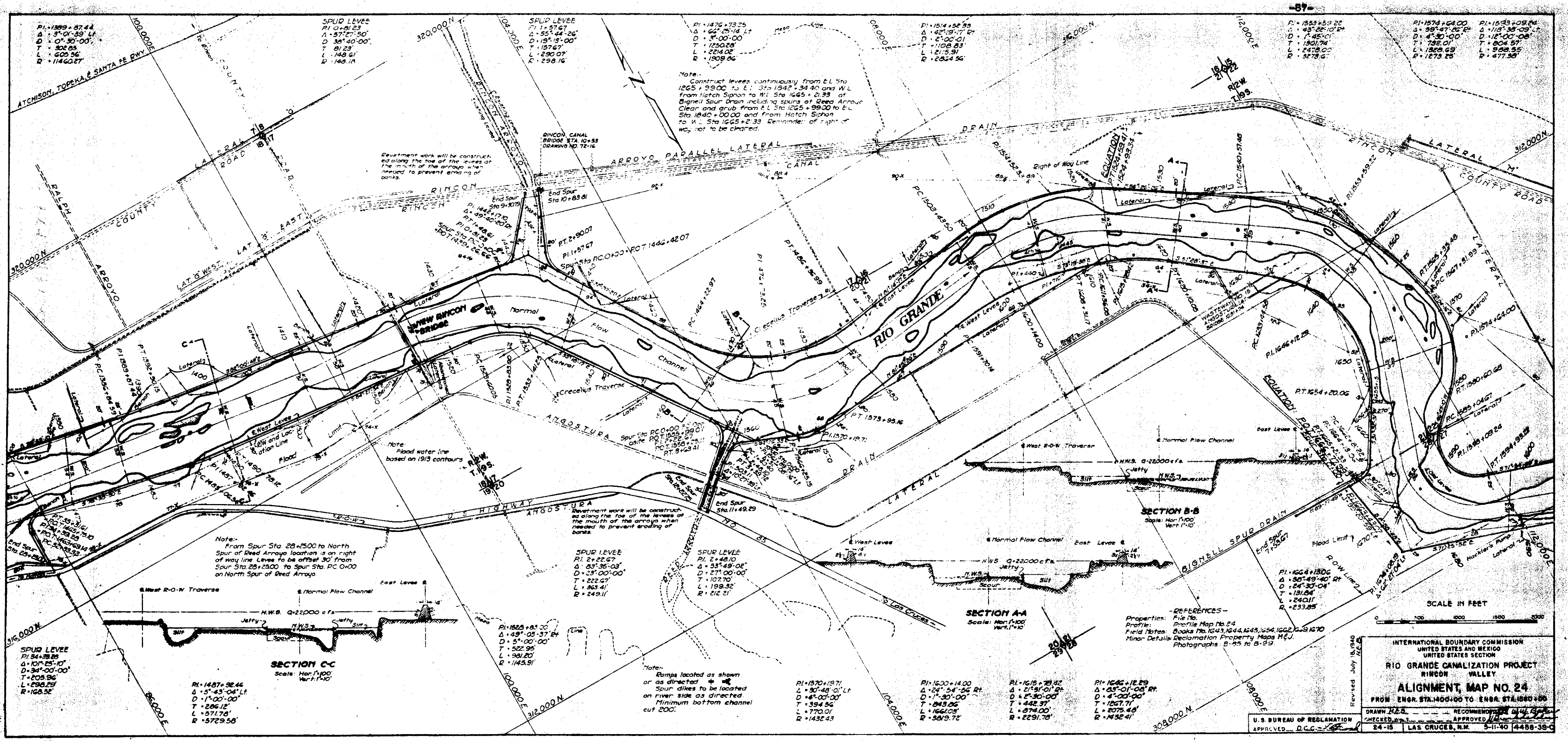
INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
RINCON VALLEY
ALIGNMENT MAP NO. 21

DESIGNED BY	CL	RECOMMENDED BY	APL
DRAWN BY	CL	APPROVED BY	

EL PASO, TEXAS FEB. 1950 1527-22







Note:-
Construct levees continuously from E.L. Sta 1265+99.00 to E.L. Sta 1342+34.40 and W.L. from Hatch Siphon to W.L. Sta 1665+21.33 at Bignell Spur Drain including spurs at Reed Arroyo Clear and grub from E.L. Sta 1265+99.00 to E.L. Sta 1640+00.00 and from Hatch Siphon to W.L. Sta 1665+21.33. Remainder of right of way not to be cleared.

Revetment work will be constructed along the toe of the levees at the mouth of the arroyo when needed to prevent eroding of banks.

Note:-
Flood water line based on 1913 contours

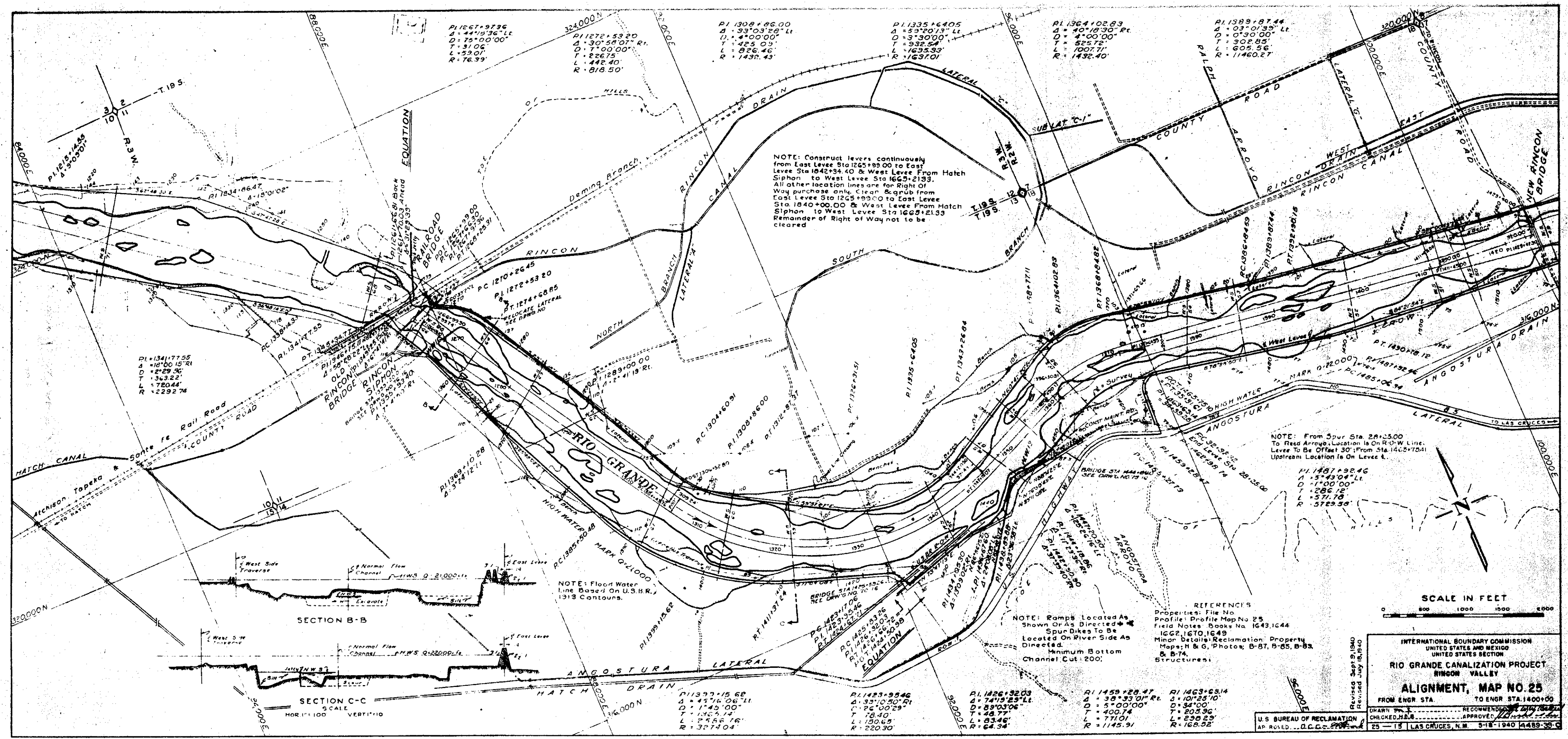
Note:-
From Spur Sta. 28+25.00 to North Spur of Reed Arroyo location is on right of way line. Levee to be offset 30' from Spur Sta. 28+25.00 to Spur Sta. PC 0+00 on North Spur of Reed Arroyo

Note:-
Revetment work will be constructed along the toe of the levees at the mouth of the arroyo when needed to prevent eroding of banks.

Note:-
Ramps located as shown or as directed. Spur dikes to be located on river side as directed. Minimum bottom channel cut 200'.

REFERENCES:-
Properties: File No.
Profile: Profile Map No. 24
Field Notes: Books No. 1643, 1644, 1645, 1654, 1662, 1669, 1670
Minor Details: Reclamation Property Maps H.C.J.
Photographs: B-55 to B-59

INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
RINCON VALLEY
ALIGNMENT, MAP NO. 24
FROM ENGR. STA. 1400+00 TO ENGR. STA. 1660+00
DRAWN H.E.S. RECOMMENDED BY J.W. G...
CHECKED W.T. APPROVED J.W. G...
U.S. BUREAU OF RECLAMATION
APPROVED D.C.G. *[Signature]*
24-15 LAS CRUCES, N.M. 5-11-40 4486-38-C



NOTE: Construct levees continuously from East Levee Sta 1265+99.00 to East Levee Sta 1842+34.40 & West Levee From Hatch Siphon to West Levee Sta 1665+21.33. All other location lines are for Right Of Way purchase only. Clear & grub from East Levee Sta 1265+99.00 to East Levee Sta 1840+00.00 & West Levee From Hatch Siphon to West Levee Sta 1665+21.33. Remainder of Right of Way not to be cleared.

NOTE: From Spur Sta 28+35.00 To Read Arrows Location is On R.O.W. Line. Levee To Be Offset 30' From Sta. 1465+70.41. Upstream Location is On Levee E.

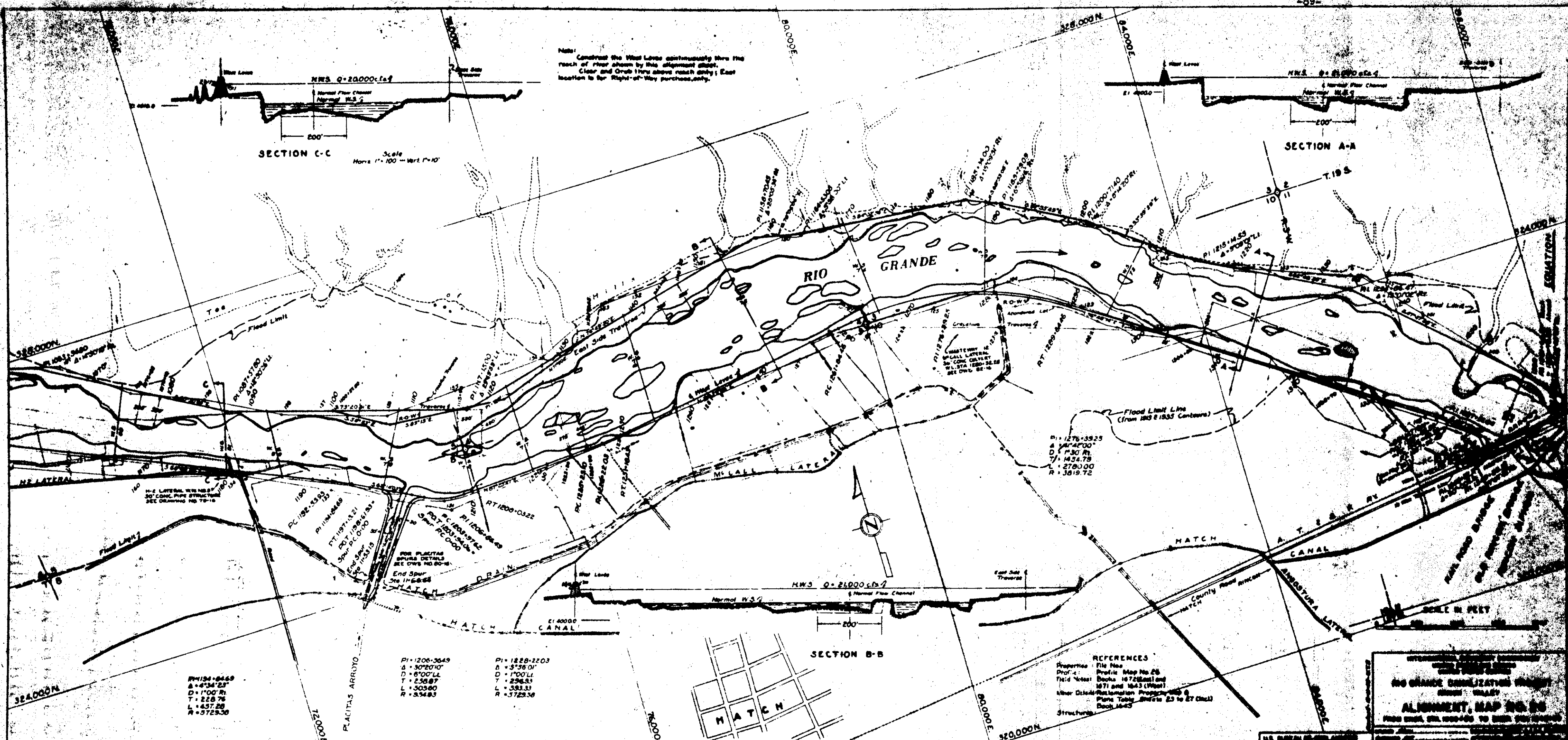
NOTE: Flood Water Line Based On U.S.R. 1913 Contours.

NOTE: Ramps Located As Shown Or As Directed. Spur Dikes To Be Located On River Side As Directed. Minimum Bottom Channel Cut: 200.

REFERENCES
Properties: File No.
Profile: Profile Map No. 25
Field Notes: Books No. 1643, 1644, 1662, 1670, 1649.
Minor Details: Reclamation Property Maps: H & G, Photos: B-87, B-85, B-83, & B-74.
Structures:



INTERNATIONAL BOUNDARY COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION
RIO GRANDE CANALIZATION PROJECT
RINCON VALLEY
ALIGNMENT, MAP NO. 25
FROM ENGR. STA. TO ENGR. STA. 1400+00
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
U.S. BUREAU OF RECLAMATION
APPROVED: D.C.C. [Signature]
25-15 LAS CRUCES, N.M. 5-18-1940 14489-35



Note: Construct the West Lanes continuously thru the reach of river shown by this alignment sheet. Clear and Grub thru above reach only; East location is for Right-of-Way purchase only.

SECTION C-C
Scale
HORIZ. 1" = 100' VERT. 1" = 10'

SECTION A-A

SECTION B-B

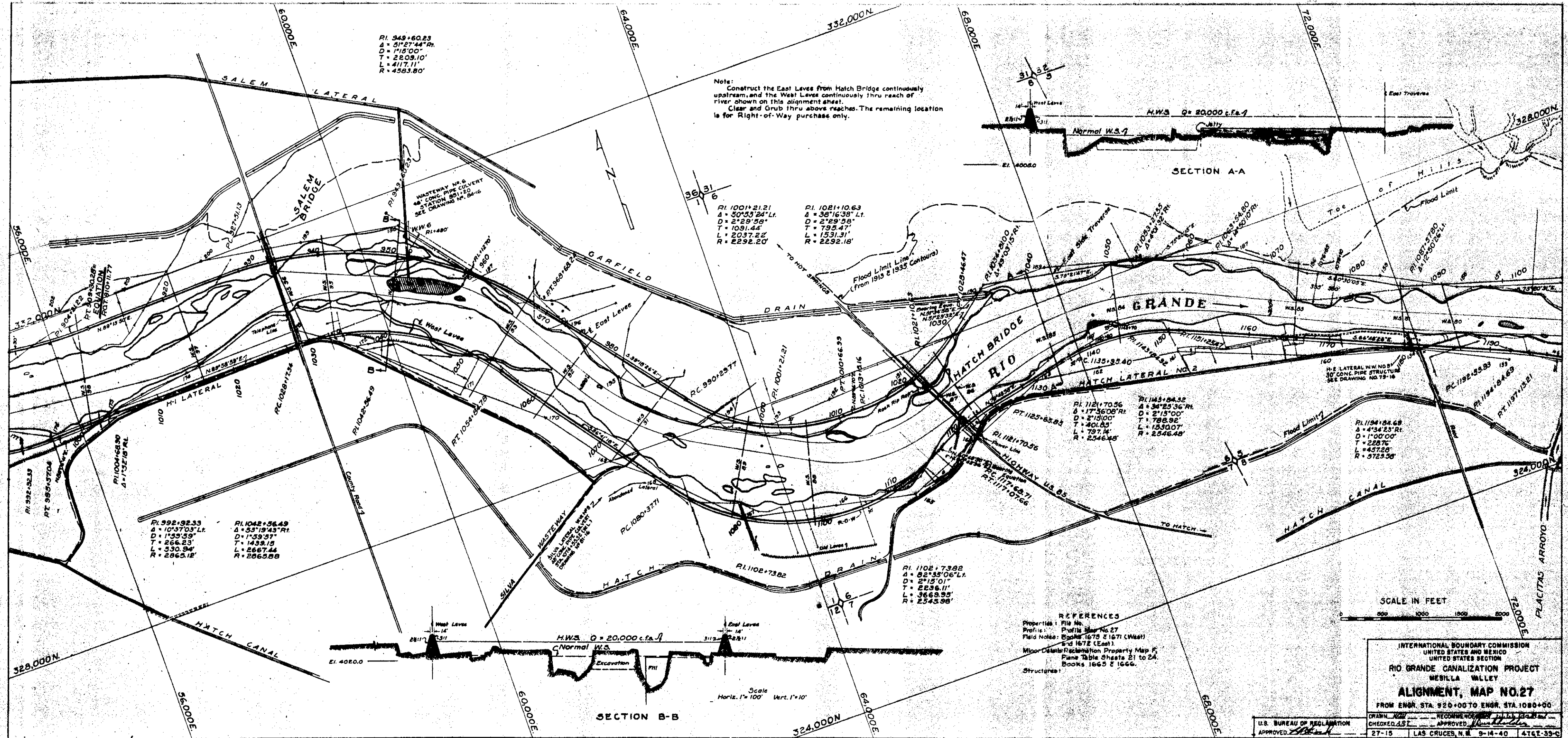
PI 134-8469
A = 4°34'23"
D = 1°00' R
T = 228.76
L = 437.28
R = 5729.36

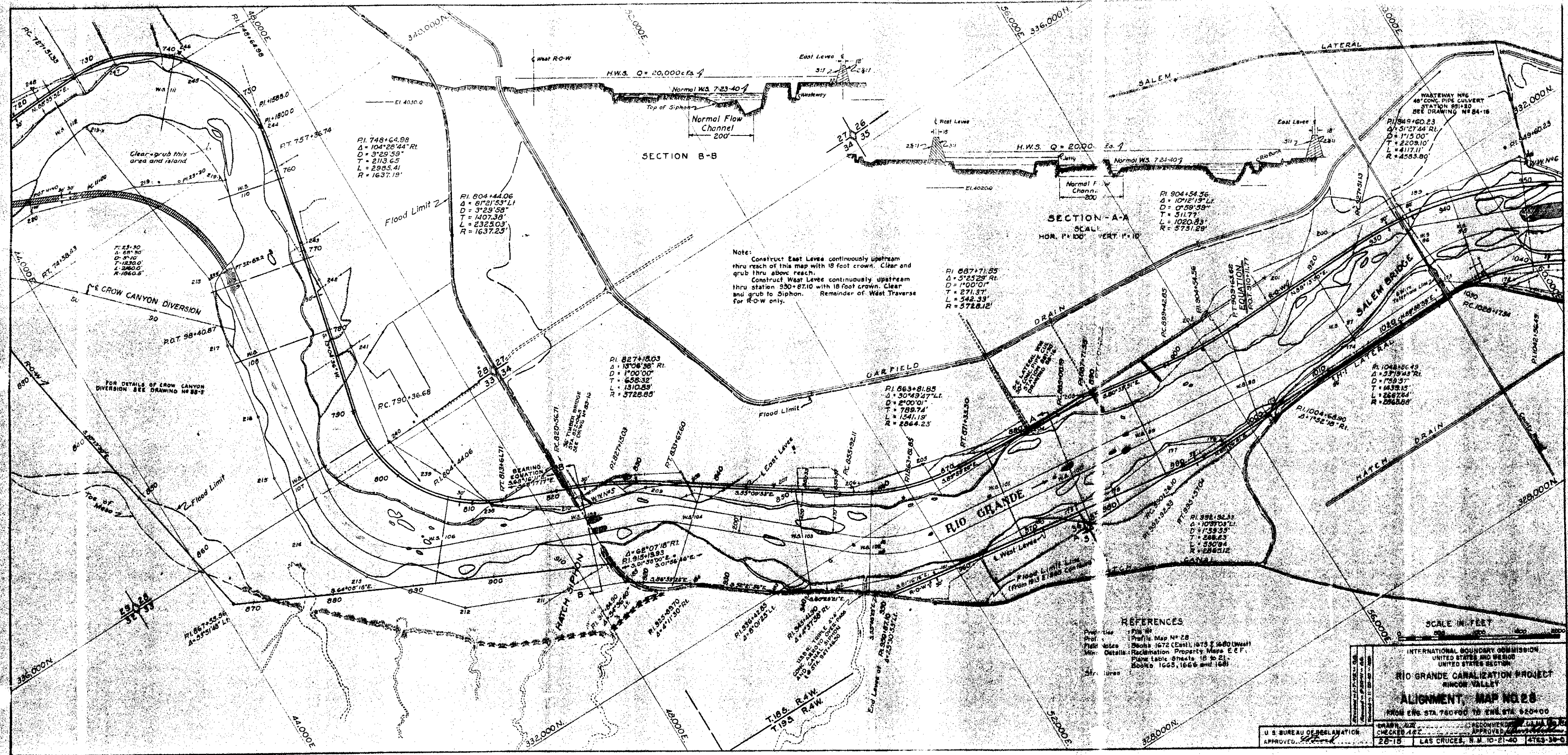
PI 1206-3649
A = 3°07'01"
D = 6700' R
T = 236.87
L = 503.00
R = 554.83

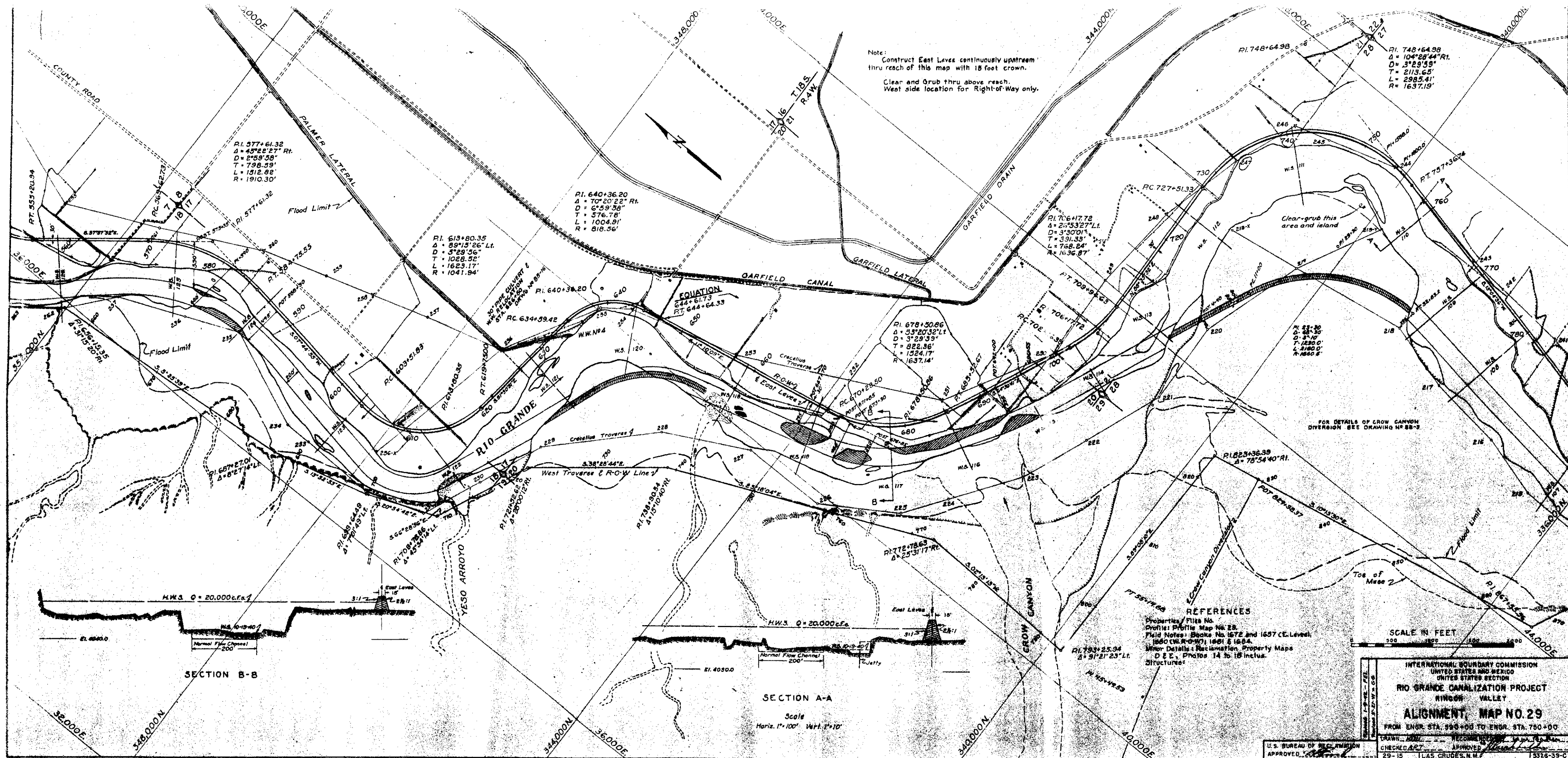
PI 1228-2203
A = 3°56'01"
D = 1700' R
T = 296.53
L = 593.33
R = 5729.36

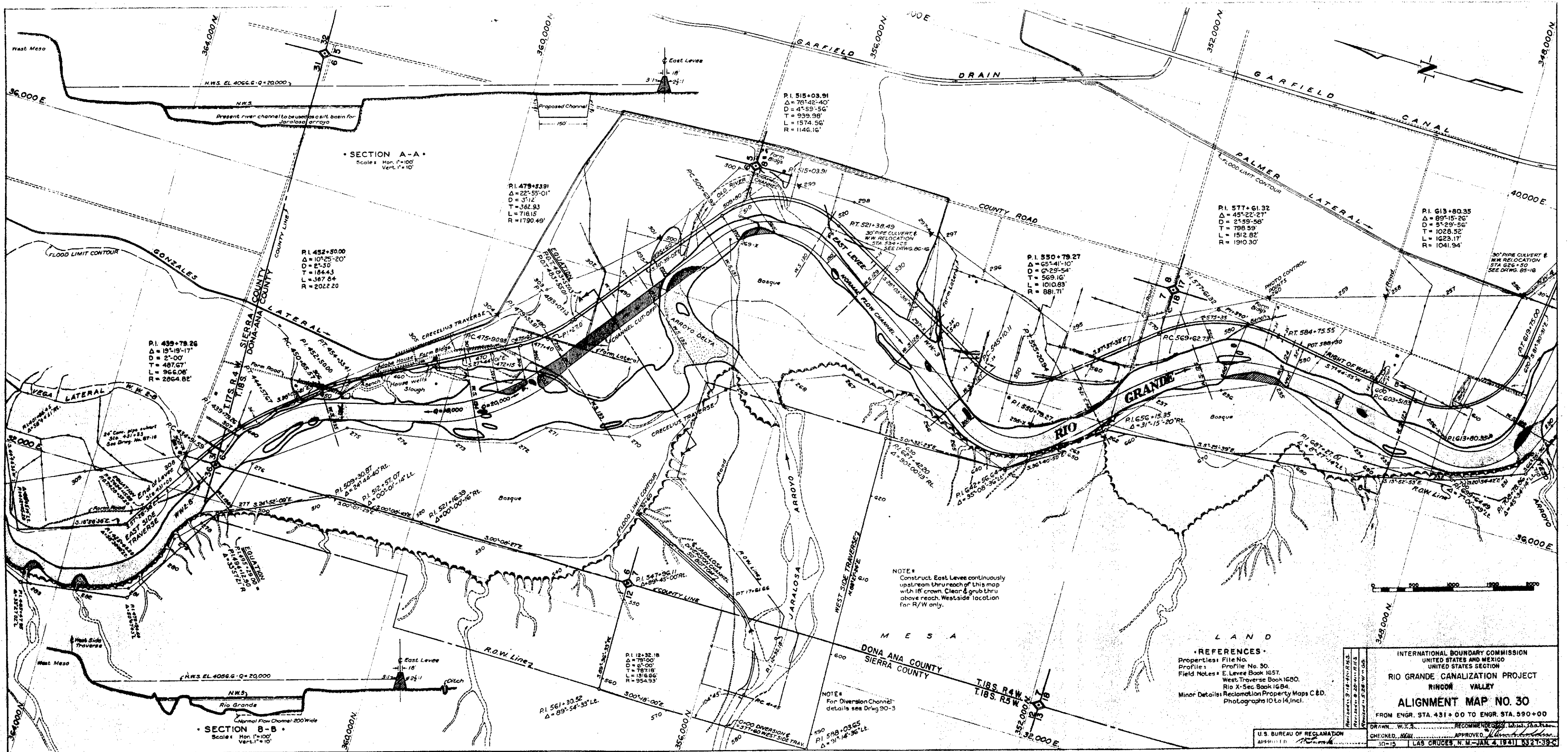
REFERENCES
Property: Rio New
Prof: 4
Field Notes: Books 1672 (Jan 1941) and 1671 and 1643 (1941)
River Discharge Stationing: Project 1643 & 1645
Plans: Table 23 to 27 (Sheet)
Book 1643
Structures:

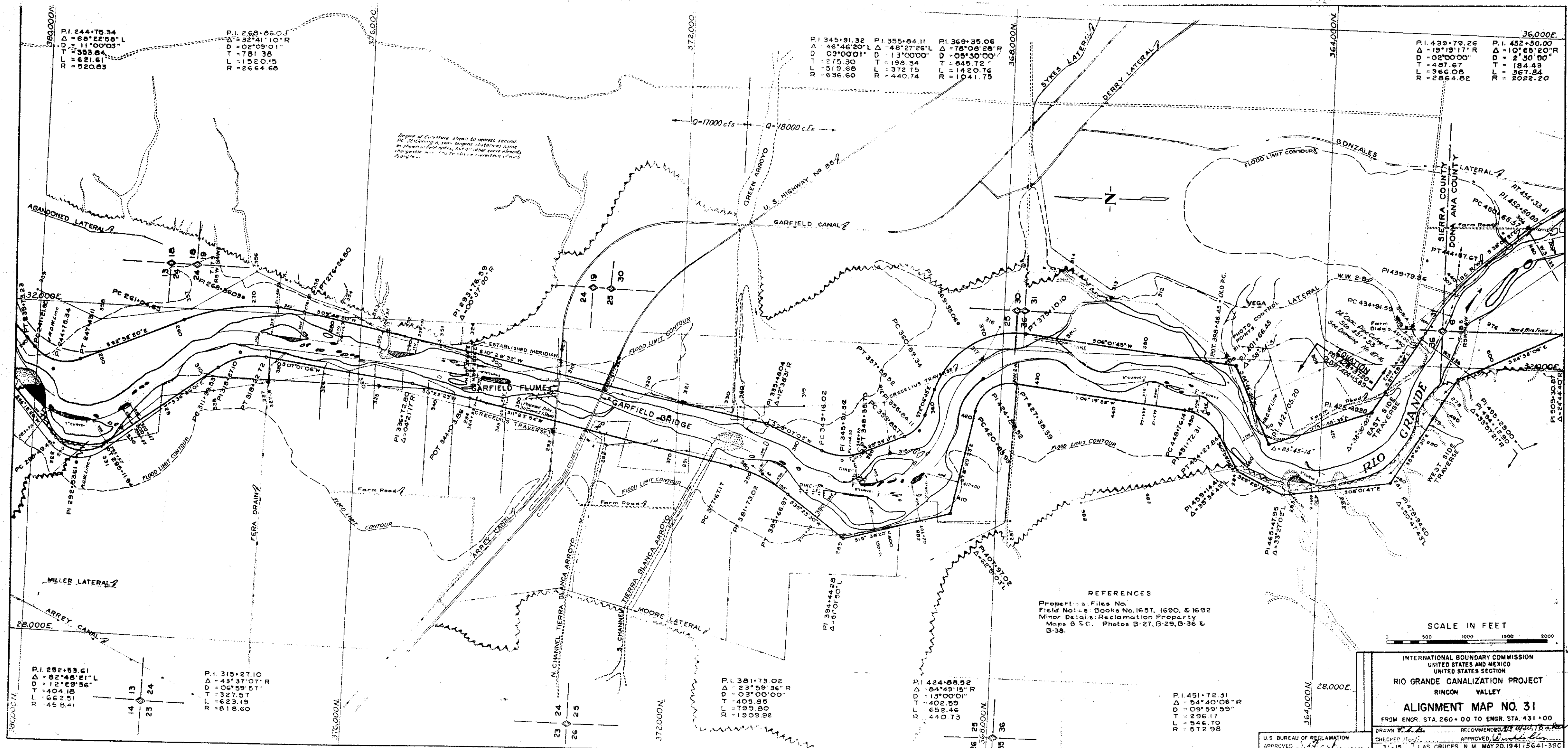
ALIGNMENT, MAP NO. 26
FROM STATE ENGINEERING TO RIVER DISCHARGE
US BUREAU OF RECLAMATION
APPROVED: [Signature]











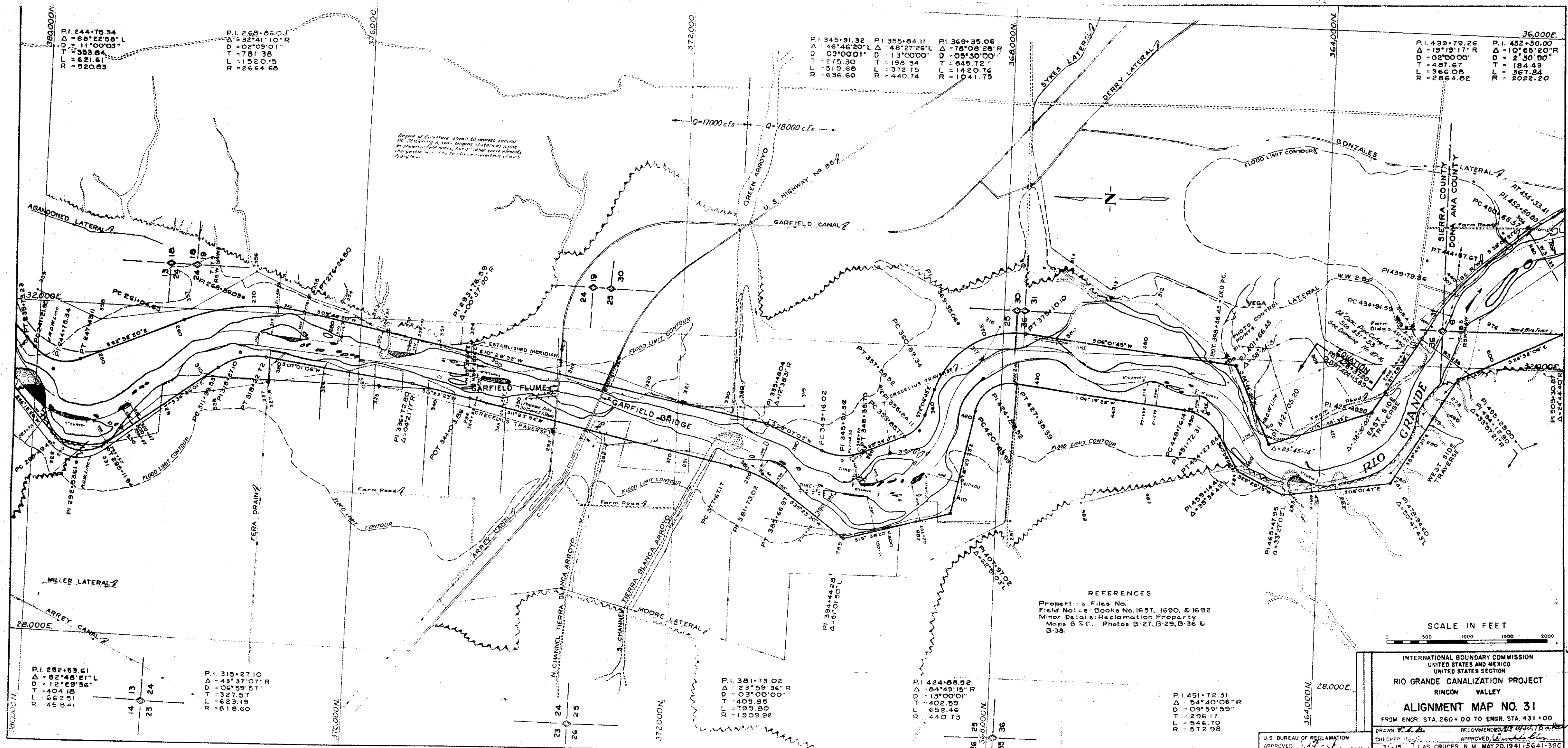
REFERENCES
 Property Files No.
 Field Notes: Books No. 1657, 1690, & 1692
 Minor Details: Reclamation Property
 Maps B & C. Photos B-27, B-29, B-36 & B-38.

SCALE IN FEET
 0 500 1000 1500 2000

INTERNATIONAL BOUNDARY COMMISSION
 UNITED STATES AND MEXICO
 UNITED STATES SECTION
 RIO GRANDE CANALIZATION PROJECT
 RINCON VALLEY
ALIGNMENT MAP NO. 31
 FROM ENGR. STA. 260+00 TO ENGR. STA. 431+00

DRAWN *[Signature]* RECOMMENDED *[Signature]*
 CHECKED *[Signature]* APPROVED *[Signature]*
 3-15 LAS CRUCES, N. M. MAY 20, 1941 5641-39C

U.S. BUREAU OF RECLAMATION
 APPROVED *[Signature]*



REFERENCES
 Property Files No.
 Field Notes: Books No. 1657, 1690, & 1692
 Minor Details: Reclamation Property
 Maps B & C. Photos B-27, B-29, B-36 & B-38.

SCALE IN FEET
 0 500 1000 1500 2000

INTERNATIONAL BOUNDARY COMMISSION
 UNITED STATES AND MEXICO
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 RIO GRANDE CANALIZATION PROJECT
 RINCON VALLEY
ALIGNMENT MAP NO. 31
 FROM ENGR. STA. 260+00 TO ENGR. STA. 431+00

DRAWN *[Signature]* RECOMMENDED *[Signature]*
 CHECKED *[Signature]* APPROVED *[Signature]*
 3-15 LAS CRUCES, N. M. MAY 20, 1941 5641-39C

U.S. BUREAU OF RECLAMATION
 APPROVED *[Signature]*

